



**The Heat Tracing Specialists<sup>®</sup>**

The background of the advertisement is a composite image. The top portion shows two industrial workers in blue coveralls and white hard hats working on a complex system of pipes and machinery. The bottom portion shows a computer monitor displaying a 3D CAD model of an industrial facility, with a large blueprint or technical drawing spread out on a desk in front of it. The entire scene is set against a dark background of an industrial plant at night, with various lights and structures visible.

**Engineered Steam Tracing Systems**



# Engineered Steam Tracing Solutions

Steam tracing applications range from freeze protection to maintaining temperatures close to that of the steam itself. Thermon steam tracing systems have a low installed cost compared to multiple bare tracers, "light" tracing with spacer blocks, or jacketed systems. "Thermonized" systems also provide predictable operation and maintenance that process plants demand.

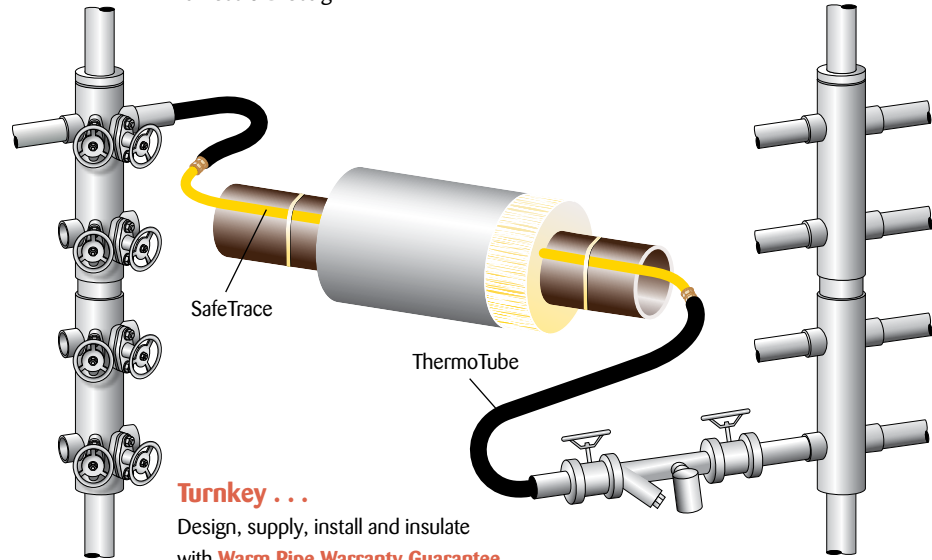
## STEAM TRACING SYSTEMS EXTEND BEYOND THE PIPING, VESSELS, AND EQUIPMENT

### Engineering Services . . .

- Layout circuits
- Locate supply and return manifolds
- Estimate installed costs
- Estimate condensate loads and operating costs
- VisiTrace 3-D design

### Field Services . . .

- Audit/Locate existing circuits
- Complete trap data for maintenance and operations



### Turnkey . . .

Design, supply, install and insulate with **Warm Pipe Warranty Guarantee**

Thermon offers a steam tracing solution for every application  
**MANIFOLD TO MANIFOLD**

## Engineered Steam Tracing Systems Provide . . .

### Lower Installed Cost

- Optimized Circuit Lengths
- Fewer Steam Traps
- Manifolds Locations Optimized

### plus+ Optimal Performance

- More Accurate Temperatures
- Reduced Summer/Winter Temperature Swings

### plus+ Lower Operating Costs

- No Overheating - By Design
- Reduced Steam Consumption

### plus+ Lower Maintenance Costs

- Fewer Traps to Replace
- Audit and Maintenance Services Available

*equals* = **Lowest Cost of Ownership!**

### "Deliverables" Can Include:

- Steam Tracing ISO Drawings with Manifold Locations
- Steam Circuit Schedules with Manifolds and Traps Identified
- Detailed Installation Instructions





**High Heat Delivery**

“Thermonized” with SnapTrace® or other Thermon Heat Transfer Compounds

**Application:** Asphalt, Resids, Sulfur

**Medium Heat Delivery**

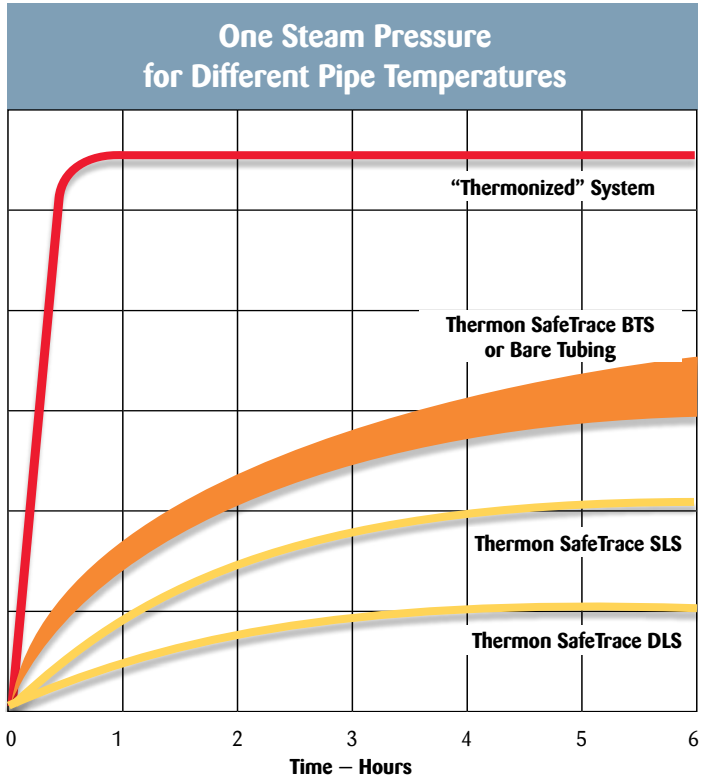
SafeTrace™ BTS or Bare Tracing

**Application:** Fuel Oils, Heavy Grease, Crude

**Low Heat Delivery**

SafeTrace™ SLS or DLS for “Light” Traced Systems

**Application:** Caustics, Acids, Amines, Small Water Lines



Heat-up and maintain characteristics for Thermon systems on 2" NPT (50mm) lines with 1" (25mm) insulation with 50 psig (3 barg) steam service (298°F/148°C)

### Pipe Temperature Ranges with a Common Steam Pressure/Temperature

- Red Band:** “Thermonized” Tracing with Thermon Heat Transfer Compounds. Insulated pipe approaching temperature of steam/fluid media.
- Orange Band:** SafeTrace BTS Bare Tracing.
- Yellow Band:** SafeTrace SLS & DLS Isolated Tracing for lowest pipe temperature.

### High Maintain Temperatures

#### “Thermonized” with Thermon Heat Transfer Compounds

- Consistent Heat Transfer Properties
- Less Than 20% of Cost for Steam Jacketing
- Reduce Bare Trace Circuits by 3 Times or More

#### SnapTrace® Preformed Extrusions for Fast Installation

- Available in 4' (1.22 m) lengths
- Significantly Reduces Installation Time
- No Surface Preparation Required
- Use With Up to 208°C (406°F) Fluid/Steam

#### HT Compounds for Piping, Valves and Irregular Surfaces

(Maximum temperature ratings shown)

- T-3:** 371°C (700°F)
- T-99:** 1,000°C (1832°F)
- T-80:** 163°C (325°F)
- T-85:** 190°C (375°F)
- T-802:** 135°C (275°F) Two part compound

### “Medium” Maintain Temperatures

**SafeTrace™ BTS:** 38°C to 121°C (100°F to 250°F)  
SafeTrace Isolated Steam Tracers reduce or eliminate risk of burns.

### Low Maintain Temperatures

#### “Light Tracing” alternative to “spacer blocks”

- SafeTrace™ SLS-IT:** 24°C to 93°C (75°F to 200°F)
- SafeTrace™ DLS-IT:** 5°C to 54°C (75°F to 130°F)

For additional information see Thermon Form TSP0005.

- Increase Circuit Lengths
- Reduce Number of Circuits and Traps
- Reduce Operating Costs
- Installed with Special Adhesive Tape



# More Engineered Steam Tracing Solutions

## TubeTrace® Heated Instrument Tubing

- Reduces installation time and costs.

### Type SP/MP Single/Multiple Process Tubes

- “Heavy Traced” for higher temperature maintenance
- The tracer tube is in direct contact with the process tube(s), so process tube temperatures will be very close to the tracer tube temperature.

**Tube Temperature Range:**  
5°C (40°F) to 205 °C (400°F)\*

**Maximum Exposure:**  
205°C (400°F)\*



### Type SI/MI Single/Multiple Isolated Tubes

- “Light Traced” for freeze protection and lower temperature maintenance.
- The tracer tube is insulated from the process tube(s), so process tube temperatures will be significantly lower than the tracer tube temperature.

**Tube Temperature Range:**  
5°C (40°F) to 121°C (250°F)

**Maximum Exposure:**  
205°C (400°F)\*



TubeTrace bundles are also available with Thermon Electrical Heat Tracing Products (see CLX0025 for more information).



## Steam Supply/Condensate Return

### ThermoTube® Pre-Insulated Tubing

- Reduces installation time and costs.

**Continuous Temperature Range:**  
Service to 205°C (400°F)\*

ThermoTube ratings to 593°C (1100°F) also available\*.

\* Higher tube temperatures are possible with XINS-extra insulation HT and HTX type designs.



## HeatSheet® Tank and Vessel Heating Units

- Provides 2 to 3 Times the Heat Transfer of Plate-Type Coils
- No Risk of Cross-Contamination with Process
- Light-weight Stainless Steel for Easy Installation
- Low Profile—Oversized Insulation Not Required

For electrically heated tank applications consider FlexiPanel® pad-type heating systems and/or Thermon electric heat tracing systems (see TMP0025 for more information).



**The Heat Tracing Specialists®**

www.thermon.com

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