

ALL YOUR HEAT TRACING NEEDS

ELECTRIC HEAT TRACING • HEATED TUBING BUNDLES • STEAM TRACING



THERMON The Heat Tracing Specialists®

THERMON HAS A SOLUTION FOR ALL YOUR HEAT TRACING NEEDS

Thermon engineers and specialists located throughout the world ensure that all factors are considered. Thermon can provide detailed design engineering, project management with project drawings and documentation, commissioning and maintenance.



INITIAL PLANNING



DESIGN / ENGINEERING



PROJECT MANAGEMENT



MANUFACTURING



COMMISSIONING



MAINTENANCE



The Heat Tracing Specialists®

THERMON OFFERS COMPLETE SOLUTIONS



Thermon can help you with all aspects of heat tracing for pipes, vessels, instrumentation and other process equipment. Together we can ensure that materials selection, circuit layout, installation and operating costs will all be considered for **your** particular application.

From initial planning stages through installation and final commissioning, Thermon provides a total systems approach precisely tailored to meet **your** heat tracing needs.

OPTIMIZED SYSTEMS PROVIDE LOWEST TOTAL COST OF OWNERSHIP

Solely focused on the heat tracing industry since 1954, Thermon's experience will ensure that all factors are considered. Thermon can include detailed design engineering and project management with project drawings, documentation, commissioning, site audits and maintenance.

We can help you make informed decisions about the heat tracing options available to you based on materials, installation, maintenance and operating costs.



OIL & GAS INDUSTRIES

Thermon provides heat tracing solutions to the petroleum industry in the upstream, midstream and downstream components of oil and gas production, processing, storage, and distribution. The upstream sector requires elevated temperatures to move the crude oil and/or raw natural gas to the surface. The downstream sector requires winterization to the refining, petrochemical, and distribution of the products.

EXPLORATION AND PRODUCTION
OIL SANDS
GAS PROCESSING
HEAVY OILS AND SYNFUELS
PETROCHEMICAL AND CHEMICAL
REFINING
STORAGE TERMINALS



The Heat Tracing Specialists®

ELECTRICAL POWER GENERATION

Thermon is a world leader in providing heat trace solutions in the power generation industry. Heat tracing needs vary from providing winterization for steam and water lines, to maintaining fly-ash hoppers and “CEMS” sample lines above the flue gas dew point, to providing solutions for critical post accident applications in the nuclear industry. Equipment must operate reliably in order to produce energy and maintain control of the plant. Thermon expertise and experience is unparalleled.

- COAL FIRED & “RESOURCE RECOVERY” PLANTS
- COMBINED CYCLE COGENERATION
- NUCLEAR POWER GENERATION
- SOLAR THERMAL POWER
- GEOTHERMAL POWER



THERMON HAS A SOLUTION FOR ALL YOUR ELECTRIC HEAT TRACING NEEDS

Whatever the application - freeze protection, high temperature maintenance or sensitive process analyzer lines - Thermon's complete line of products provides superior heat tracing solutions.

Process Lines

- Complex Piping
- Long Transfer Lines

Tank Heating

- Vessel Heating
- Tank Foundation Heating
- Hopper Heating

Process Instrumentation

- Flow, Level and Pressure Transmitters
- "CEMS" Continuous Emissions Monitoring Systems
- Process Analytical Sample Lines

Thermon
Electric Heat Tracing Cables



TubeTrace®
Heated Instrument Tubing



TubeTrace®
Analytical/CEMS Bundles



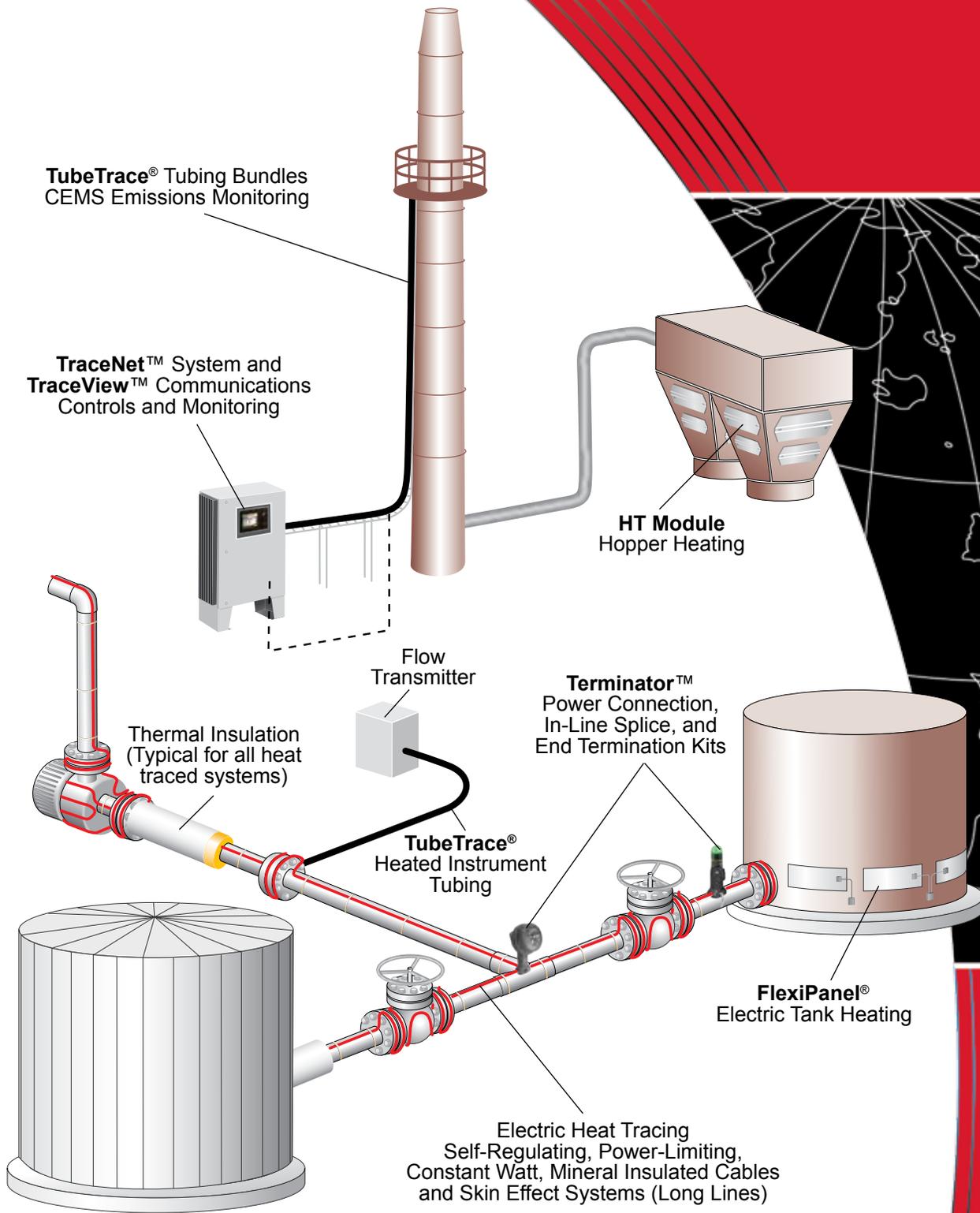
FlexiPanel®
and HT Module
Surface Heaters



Controls and Monitoring
Electronic and Mechanical



The Heat Tracing Specialists®



ELECTRIC HEAT TRACING

THERMON OFFERS A STEAM TRACING SOLUTION FOR EVERY APPLICATION

Steam applications range from freeze protection to maintaining temperatures close to that of the steam itself. “Thermonized” systems also provide predictable operation and maintenance that process plants demand.

- Process Lines, Utility Piping and Equipment
- Instruments and Analyzer Lines
- Tank Heating

SnapTrace® and
Heat Transfer Compounds



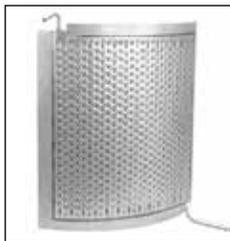
TubeTrace®
Heated Instrument Tubing



SafeTrace®
Isolated Tracers



HeetSheet®
Steam Tank Heating

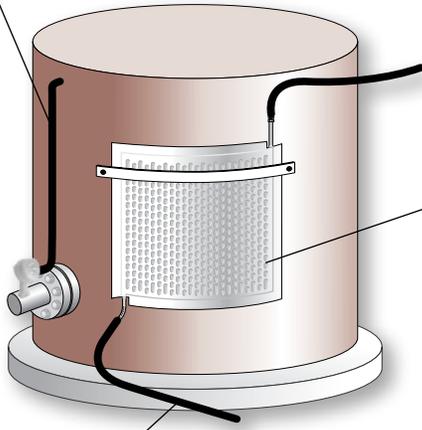


ThermoTube®
Pre-Insulated Tubing



The Heat Tracing Specialists®

TubeTrace®
Heated Tubing for
Level, Flow and
Pressure Instruments

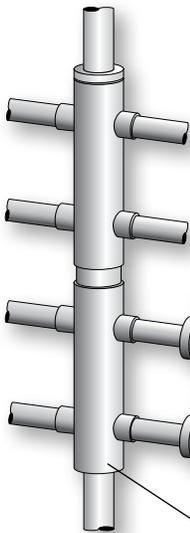


HeetSheet®
Steam Tank Heating

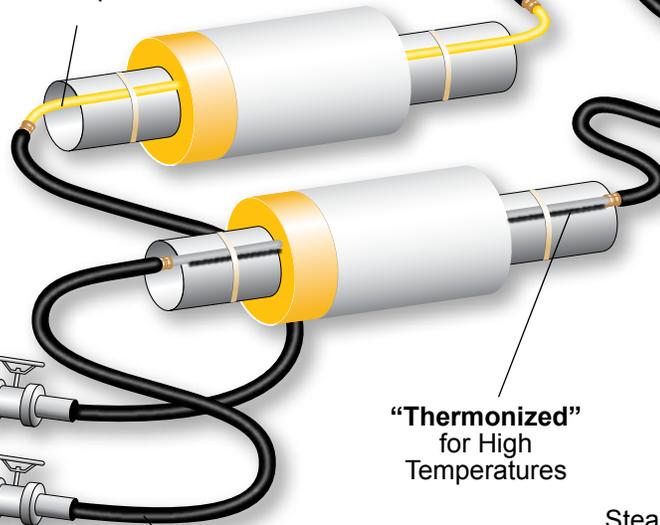
ThermoTube®
Steam Supply

ThermoTube®
Supply/Return Lines

SafeTrace®
Isolated Tracing for
Low Temperatures



Condensate
Return Manifold



"Thermonized"
for High
Temperatures

Steam Supply
Manifold

ThermoTube®
Condensate Return Lines

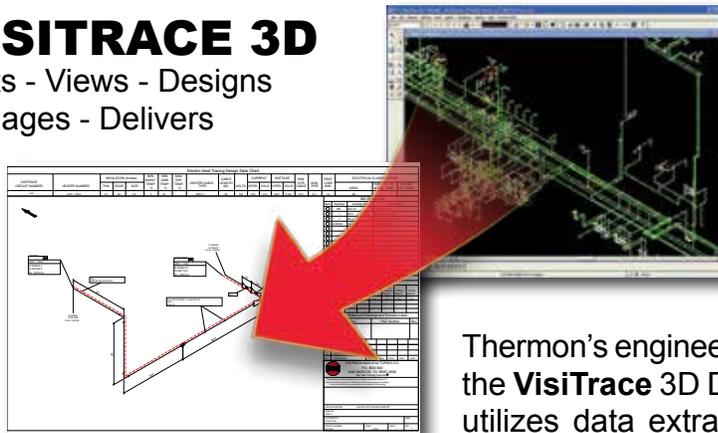
MAINTAIN DIFFERENT TEMPERATURES WITH ONE STEAM PRESSURE

DESIGN TOOLS

Thermon has developed sophisticated, yet easy-to-use software packages that provide detailed design and performance information for electric and steam tracing. Users of **CompuTrace®** are able to input design data into the program and obtain detailed system and thermal performance information.

VISITRACE 3D

Sorts - Views - Designs
Manages - Delivers

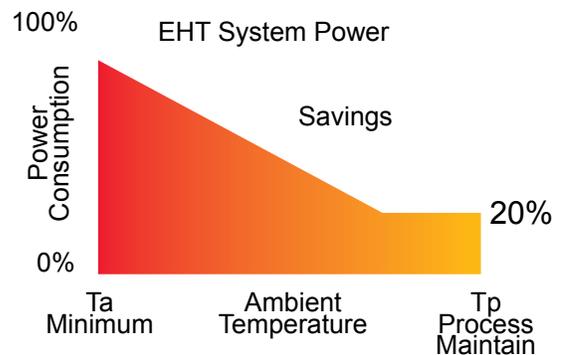


Thermon's engineering capabilities also include the **VisiTrace 3D** Design System. This system utilizes data extracted directly from the customer's 3D model database, automating the heat tracing design from start to finish. This allows Thermon to reduce client engineering man-hours to design large projects and provide "as-built" drawings in much less time.

ENERGY CONSERVATION = LOWER OPERATING COSTS

Heat tracing systems are not often a priority when energy reduction initiatives are being considered. However, when the total heat tracing load in a large system is considered, savings can be significant.

Energy Consumption with APC *



* APC: Ambient Proportional Control



The Heat Tracing Specialists®

WORLDWIDE APPROVALS

Every product must undergo a multitude of performance tests including stability and long-term reliability. All products are further tested and certified by major approval agencies to verify compliance to international industry standards.



DNV LLoyds GGTN TIIS CQSTEx ABS

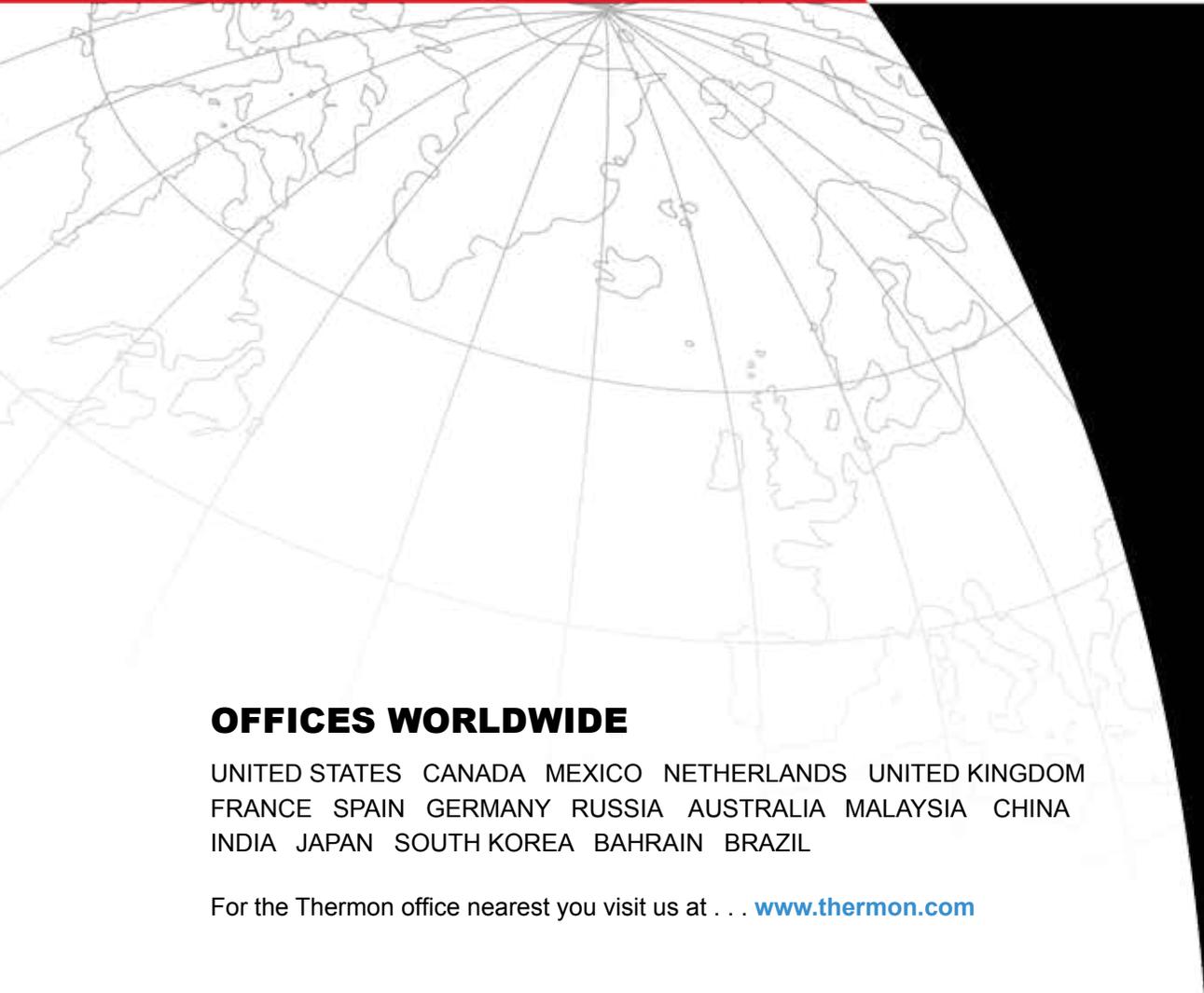
For the continued advancement of heat tracing technology, Thermon actively participates in professional organizations such as those listed below.



GLOBAL PRESENCE

Thermon engineers and specialists located throughout the world provide design, product selection, installation packages, training and supervision, and commissioning. These dedicated professionals take projects from conception through completion and review each project's needs to make recommendations based on specific applications and code requirements.

Thermon is committed to measurable contributions in health, safety and environmental aspects of our products, services, and operations. To realize this, all Thermon operations and employees work together to protect our environment and the health and safety of our customers, employees, and neighbors around the world.



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