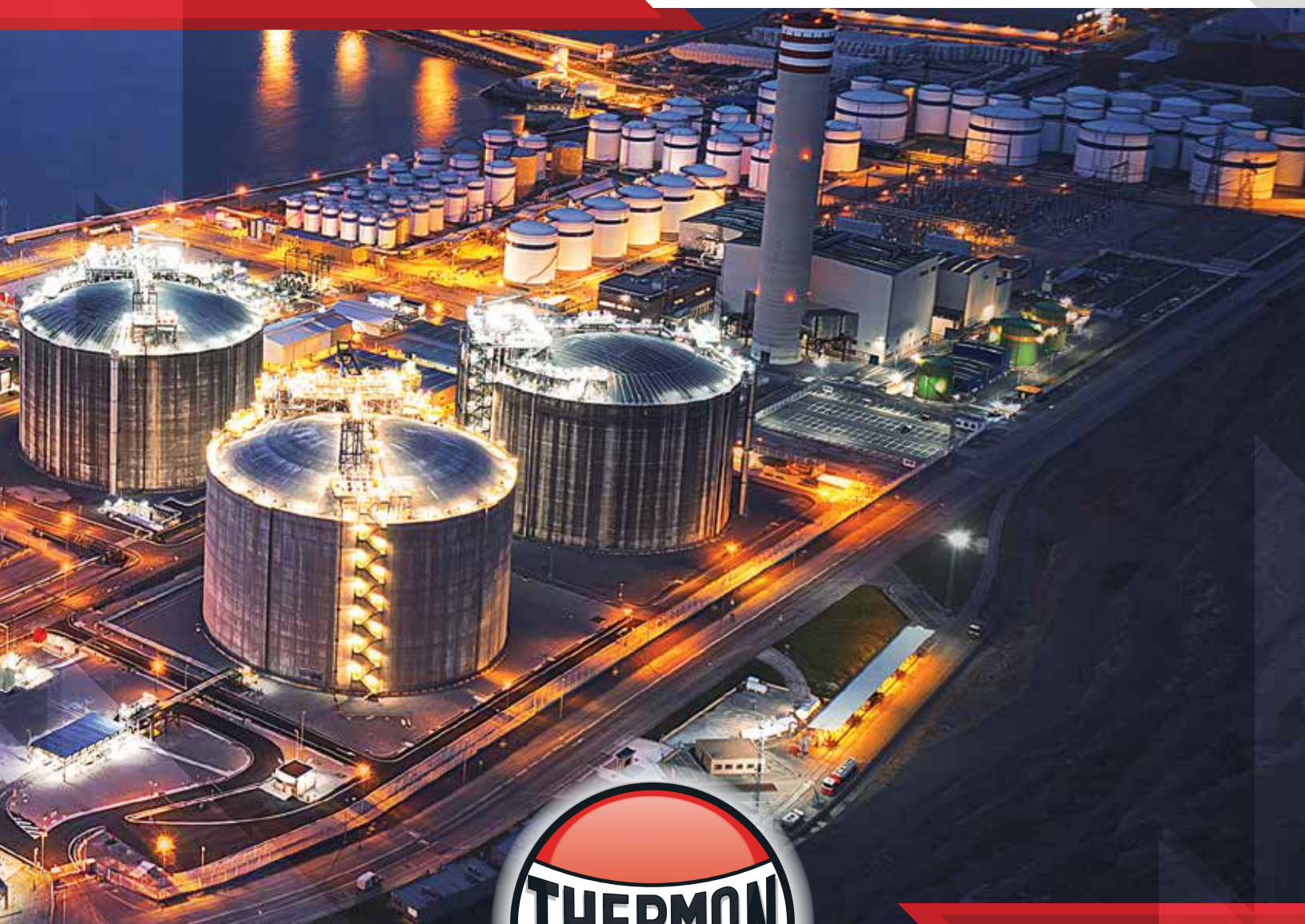


INDUSTRIAL PROCESS HEATING **SOLUTIONS**



OIL AND GAS

- UPSTREAM SECTOR**
 - Onshore Oil and Gas Production
 - Bitumen Production and Processing
 - Coal-Bed Methane
 - Offshore Oil and Gas Production
 - Mining
- MIDSTREAM SECTOR**
 - LNG Liquefaction
 - LNG Receiving Terminal
 - LNG Storage
 - Fuel Storage
 - Transmission Pipeline
- DOWNSTREAM SECTOR**
 - Hydro Treating
 - Alkylation Plant
 - Coking Unit
 - Continuous Catalytic Reforming
 - Sulfur Recovery
 - Crude Oil Distillation
 - Fluid Catalytic Cracking
 - Hydrogen Plant
 - Hydrocracking

CHEMICAL

- Chemical Processing
- Fertilizer Plant

POWER GENERATION

- Combined Cycle Power
- Nuclear Power
- Wind Power
- Concentrated Solar Plant

TRANSPORTATION

- Rail Switching
- Commuter Train

COMMERCIAL

- Waste Water Treatment
- Hot Water Temperature Maintenance
- Industrial Manufacturing



OUR MISSION

To provide safe, reliable, and innovative mission-critical industrial process heating solutions that create value for our customers.

THROUGH OUR GLOBAL NETWORK, THERMON PROVIDES HIGHLY ENGINEERED THERMAL SOLUTIONS FOR PROCESS INDUSTRIES, INCLUDING ENERGY, CHEMICAL PROCESSING, AND POWER GENERATION.

Thermon is the leading single-source provider of **industrial process heating**, delivering **comprehensive, engineered solutions** for complex projects, including **hazardous area applications**.

Since 1954, we've led the industry in designing a full spectrum of custom services that address every essential **process heating requirement**, from beginning to end.

INDUSTRY SOLUTION:

OIL AND GAS

AS THE GLOBE CONTINUES
TO TRANSITION TO CLEANER
FUEL SOURCES, WE WORK
WITH THE WORLD’S LARGEST
END USERS AND ENGINEERING
CONTRACTORS TO PROVIDE
ENERGY-EFFICIENT DESIGNS AND
A REDUCED CARBON FOOTPRINT
FOR GENERATIONS TO COME.



- ADVANCED CONTROL COMMUNICATIONS
- FREEZE PROTECTION
- PACKAGED SKIDS
- TANK HEATING
- PROCESS TEMPERATURE MAINTENANCE
- IMMERSION HEATING
- EXPLOSION-PROOF HEATING
- CONTINUOUS EMISSIONS MONITORING SYSTEMS
- SERVICES

CHALLENGES

The refining sector continues to face many challenges in the oil and gas industry.

- Lack of skilled workers and subject-matter experts
- Flow assurance issues with product viscosity and matter phase
- Separate control systems and manual maintenance
- Hazardous areas with dangerous atmospheres
- Cold-climate issues related to personnel safety and infrastructure

SOLUTIONS

Thermon provides advanced heating and filtration solutions to the oil and gas industry across upstream, midstream, and downstream sectors related to production, processing, storage, and distribution.

- Dedicated engineering and technical support located globally
- Process maintenance and freeze protection with process heaters and heat-tracing products
- Advanced controls technology with remote access and IoT product monitoring with panels and all accessories
- Explosion-proof products rated, through internationally recognized organizations, for the most extreme and dangerous places
- Freeze protection of piping, tanks, and space and comfort heating

INDUSTRY SOLUTION:

CHEMICAL PLANT

THE CHEMICAL AND

PETROCHEMICAL INDUSTRIES

PROVIDE EVERYTHING FROM

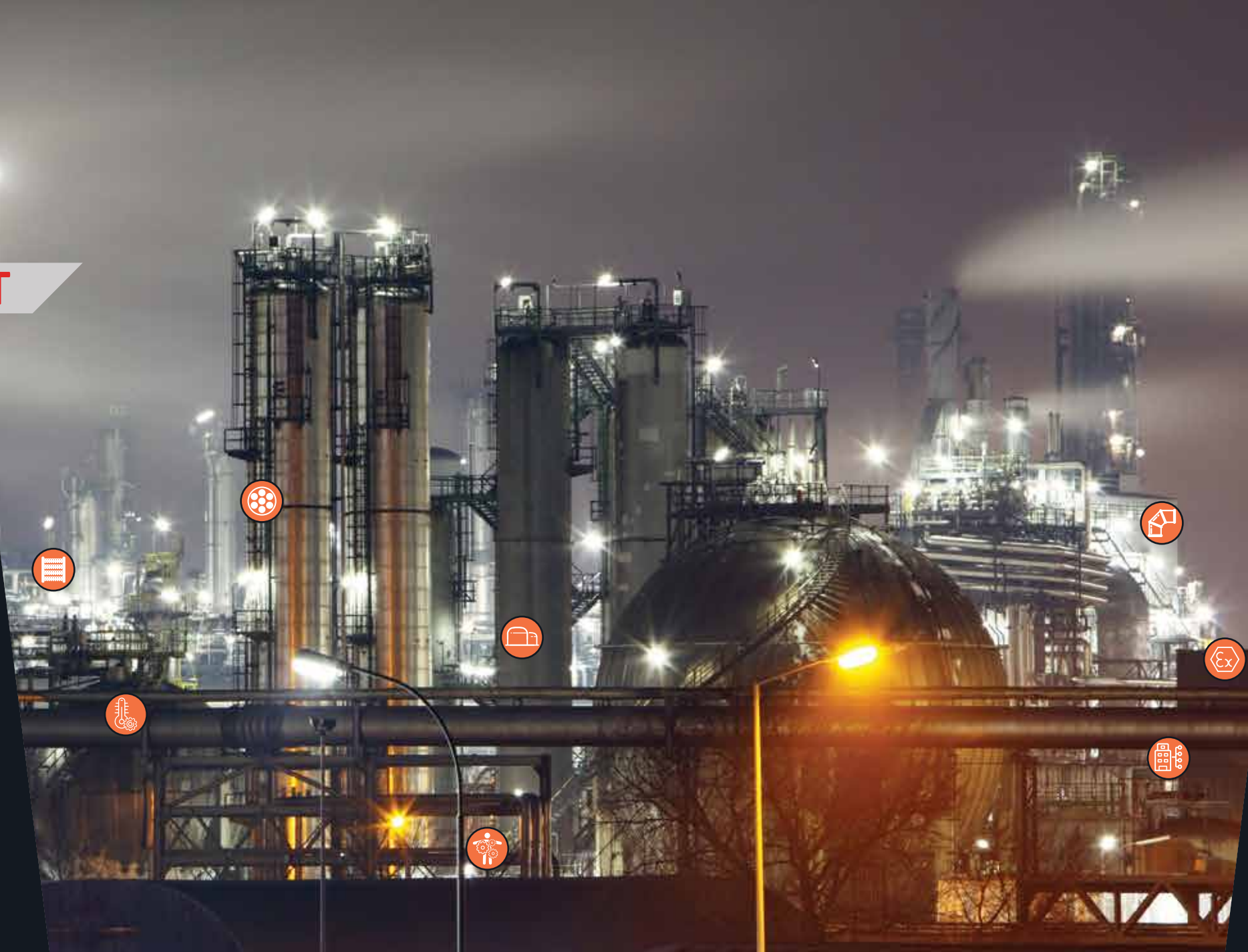
THE PLASTIC IN CHILDREN'S

CAR SEATS TO LIFE-SAVING


PHARMACEUTICAL DRUGS, AND

THEY ALL RELY ON CONTINUOUS

OPERATION AND ZERO DOWNTIME.



 GAS HEATING

 PROCESS TEMPERATURE
MAINTENANCE

 TUBING BUNDLES

 TANK HEATING

 DUCT HEATING

 ADVANCED CONTROL
COMMUNICATIONS

 EXPLOSION-PROOF
HEATING

 SERVICES

CHALLENGES

The chemical and petrochemical industries are extremely challenging with increasing regulatory requirements to preparing for distribution channel changes.

- Volatile products with specific heating requirements to avoid process flow interruption
- Poor quality fluids and gases that lead to process inefficiency and increased maintenance
- Separate control systems and manual maintenance
- Hazardous areas with dangerous atmospheres
- Cold-climate issues related to personnel safety and infrastructure

SOLUTIONS

Thermon provides safe and reliable heating solutions to this growing market at the lowest total cost of ownership.

- Advanced control and heating optimization using the best products at their highest efficiency whether for heat tracing, immersion heating, or external line heating in hazardous environments
- Process fuel and gas conditioning skids custom engineered to exact specification to increase life of the plant
- Advanced controls technology with remote access product monitoring with panels and all accessories
- Explosion-proof products rated, through internationally recognized organizations, for the most extreme and dangerous places
- Freeze protection of piping, tanks, and space and comfort heating

INDUSTRY SOLUTION:

POWER GENERATION

WITH THE WORLD'S POPULATION CONTINUING TO GROW AND EMERGING MARKETS GAINING ACCESS TO ELECTRICITY, THERMON CONTINUES TO OFFER VARIOUS INNOVATIVE SOLUTIONS THAT REDUCE CO₂ EMISSIONS, PROMOTE THE USE OF CLEAN-BURNING FUELS, AND EXTEND THE LIFE OF POWER GENERATION PLANTS.

- TANK HEATING
- PROCESS TEMPERATURE MAINTENANCE
- EXPLOSION-PROOF HEATING
- ADVANCED CONTROL COMMUNICATIONS
- TUBING BUNDLES
- DUCT HEATING
- GAS LINE HEATING
- SERVICES
- FREEZE PROTECTION

CHALLENGES

- The power generation industry faces a daunting challenge in meeting global energy needs.
- Poor quality fluids and gases that lead to process inefficiency and increased maintenance
 - Separate control systems and manual maintenance
 - Environmental regulations are creating monitoring, capture, and elimination needs that are costly, yet important
 - Hazardous areas with dangerous atmospheres
 - Cold-climate issues related to personnel safety and infrastructure

SOLUTIONS

- Process fuel and gas conditioning skids custom engineered to exact specification to increase life of the plant
- Advanced controls technology with remote access and product monitoring with panels and all accessories
- Continuous emission monitoring (CEMS), carbon capture, and filtration through highly engineered products from 3L Filters and tubing bundle products
- Explosion-proof products rated, through internationally recognized organizations, for the most extreme and dangerous places
- Freeze protection of piping, tanks, and space and comfort heating
- Advanced control and heating optimization using the best product at the highest efficiency

INDUSTRY SOLUTION:

TRANSPORTATION

WITH OVER ONE MILLION
KILOMETERS OF RAILWAY
IN THE WORLD, RAIL
TRANSPORTATION IS ONE OF THE
MOST ECONOMICAL AND SAFE
SOLUTIONS FOR PASSENGERS AND
PRODUCTS AROUND THE WORLD.



 CONTROL PANEL

 SWITCH CLEARING
DEVICES

 RAIL SWITCH HEATING

 COMFORT HEATING

 PLATFORM HEATING

 FLOOR HEATING,
DUCT HEATING, AND
THRESHOLD HEATING

CHALLENGES

Passenger safety remains one of the biggest challenges in the transportation industry.

- Switches freeze in cold climates and could lead to disaster when passengers and freight are traveling
- Rail platforms are susceptible to freezing that could result in serious injury to travelers
- Passenger rail cars and engines require de-icing of windows and heating for comfort in the cabin

SOLUTIONS

From comfort heating in the transit car to the safe clearing of switches in extreme conditions, Thermon is a leading manufacturer of complete, engineered electric rail heating systems for freight and urban applications.

- Thermon has the most comprehensive set of switch clearing device technologies from gas to electric solutions
- Embedded heating for platforms and slabs with temperature monitoring and snow/ice clearing
- Window defrosters, threshold warming, passenger cabin heating through convection, and forced air are all solutions available to create the ideal design

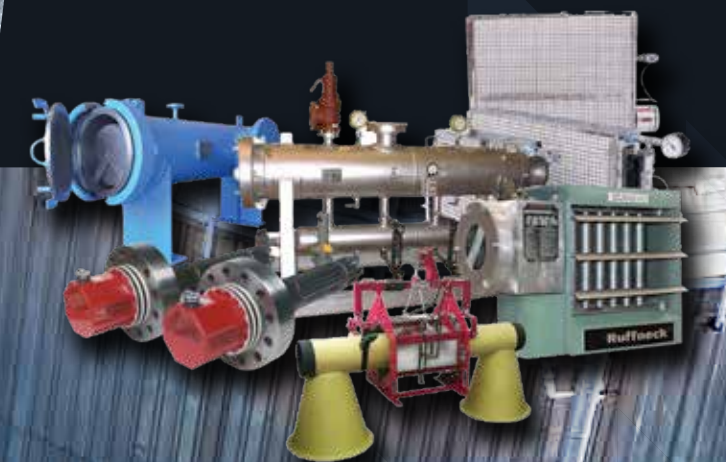
THERMON HEAT TRACING

FOUNDED IN 1954, THERMON QUICKLY BECAME KNOWN WORLDWIDE AS SPECIALISTS IN THERMAL TRANSFER. USING BOTH STEAM AND ELECTRIC HEAT TRACING, THERMON HEAT TRACING PRODUCTS PROVIDE AN EXTERNAL HEAT SOURCE TO PIPES, VESSELS, AND INSTRUMENTS FOR THE PURPOSES OF FREEZE PROTECTION, TEMPERATURE MAINTENANCE, AND ENVIRONMENTAL MONITORING.



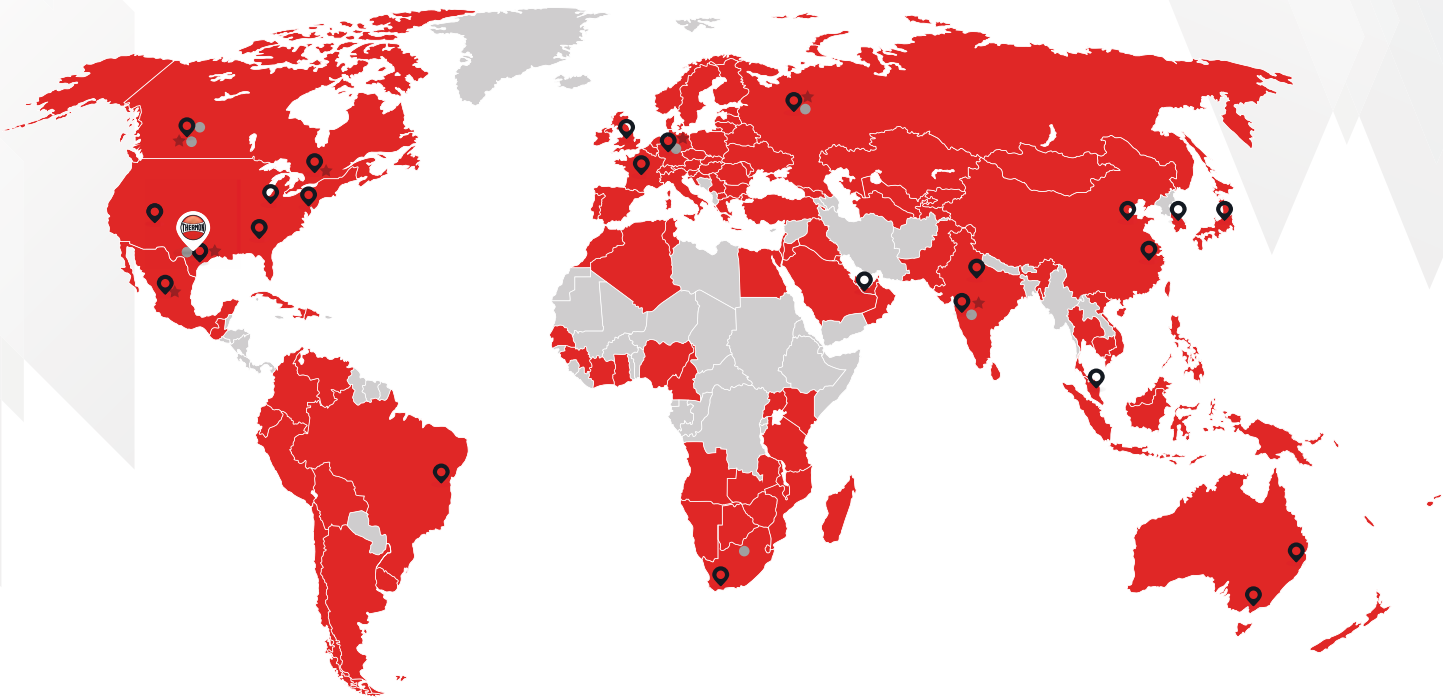
THERMON HEATING SYSTEMS

THROUGH THE EXTENDED PRODUCT OFFERINGS OF THERMON HEATING SYSTEMS, WE ARE THE LEADING SINGLE-SOURCE PROVIDER OF INDUSTRIAL PROCESS HEATING. THERMON HEATING SYSTEMS PRODUCES GAS AND ELECTRIC HEATERS FOR A BROAD SPECTRUM OF INDUSTRIES AND ENVIRONMENTS, WITH CAPACITIES TO MEET ANY INDUSTRIAL REQUIREMENT.



THERMON POWER SOLUTIONS

THERMON POWER SOLUTIONS
FURTHER EXTENDS THE
BREADTH OF OUR ONE-STOP,
FULL SERVICE SOLUTIONS,
PROVIDING TEMPORARY POWER
AND LIGHTING IN REGULAR
AND HAZARDOUS LOCATIONS.
WHETHER IT'S A LARGE SCALE
MEGA-PROJECT OR A MAJOR PLANT
TURNAROUND WHERE HAZARDOUS
RATED EQUIPMENT IS REQUIRED,
THERMON POWER SOLUTIONS
PROVIDES FULL PACKAGE SOLUTIONS.



HEADQUARTERS

- THERMON INSTALL BASE
- PRODUCTION PLANT

- SALES AND ENGINEERING
- TURNKEY/ CONSTRUCTION SERVICES



OFFICES WORLDWIDE

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