



CONNECT AND PROTECT

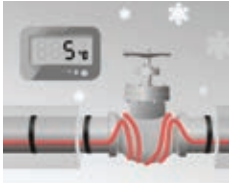
Industrial heat tracing solutions,
keeping processes operational and safe


nVent

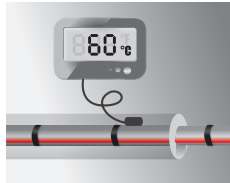
RAYCHEM

We are where you need us, from industrial to commercial, residential and infrastructural solutions

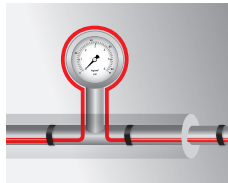
We provide safety and comfort to people, maximizing industrial productivity and building performance, and reducing energy consumption. We cover any heat tracing application.



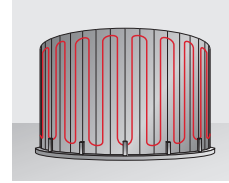
Frost Protection



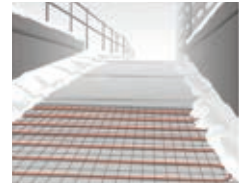
Temperature Maintenance



Instrument Heating



Tank Heating



Snowmelting of Ramps

OIL & GAS



We help keeping quality flowing.

- Freeze protection of pipes and equipment
- Viscosity control of oil
- Solve wax/paraffin problems
- Anti-icing on offshore vessels, rigs, heli-decks
- Leak detection and tank insulation
- Long pipeline heating
- Frost heave prevention of LNG tanks

CHEM/PETROCHEM



We help keeping processes operational.

- Freeze protection of water and steam condensation lines, instrumentation, and other equipment
- Flow control of hydraulic systems and transfer lines
- Temperature maintenance of sensitive liquids, like fuel oils, phenol, sulfur, caustic soda, paint, resins, salts ...
- Prevent condensation to avoid pipe corrosion, clogging of electro-filters, conveyer systems ...

POWER



We protect critical power generation.

- For Coal, Gas, Solar or Nuclear plant
- Freeze protection of cooling water and water treatment stations
- Keep boiler start-up units functional
- Prevent condensation on electro-filters, ash removers, instrument and air process lines
- Temperature maintenance on desulfurization units
- Flow assurance on fuel oil and instrumentation lines

FOOD



We protect critical power generation.

- Freeze protection of water and steam condensation lines, freezer doors, equipment
- Avoid condensation of flour mills, bakery products, incinerators, milk powder ...
- Pasteurization/Sterilization of dairy products and potable water lines
- Flow control of specific processes with sodium hydroxide: dried maize/corn, milk powder, potato starch, mayonnaise, vegetable oil, fat, chocolate, sugar, gelatin

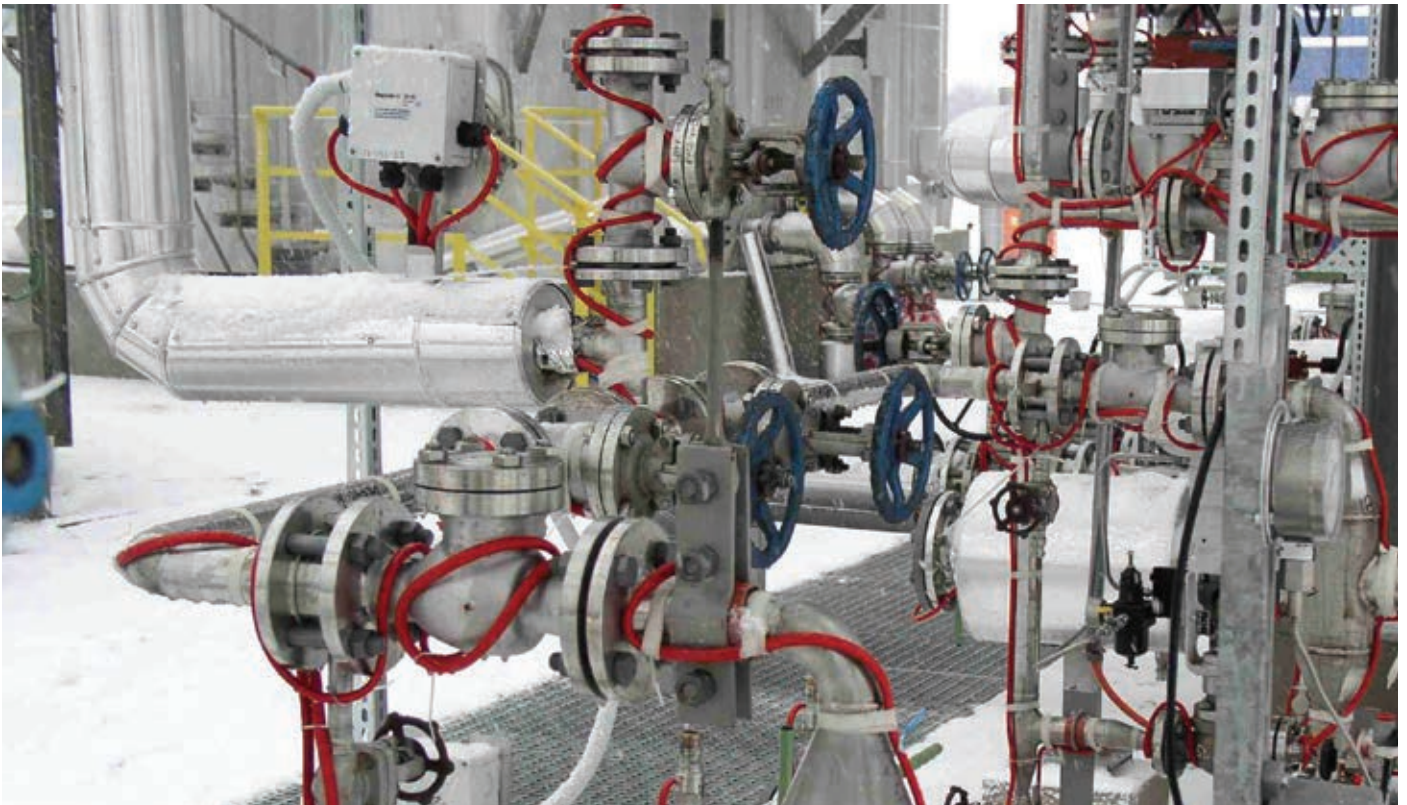
PULP & PAPER



We ensure seamless production flow and safe work environment.

- Freeze protection of water, pulp, starch, silo cones, process slurries, steam condensate, instrumentation lines, storage areas, loading platforms, truck scales, gutters, critical walk ways
- Temperature maintenance of caustic solutions, sulfuric acid, aluminum sulfate, black liquor.

Products in action



nVent RAYCHEM XTV heating cables, installed for process temperature maintenance and frost protection on pipes in a chemical plant (insulation is still pending)

About nVent

nVent Electrical PLC is a global company with nearly 9,000 employees worldwide and with leading positions in industrial, commercial, residential, and infrastructure sectors. Brand names include RAYCHEM, TRACER, HOFFMAN, SCHROFF, CADDY and ERICO.

At nVent, we believe that safer systems ensure a more secure world. We connect and protect our customers with inventive electrical solutions.



We manage the heat you need

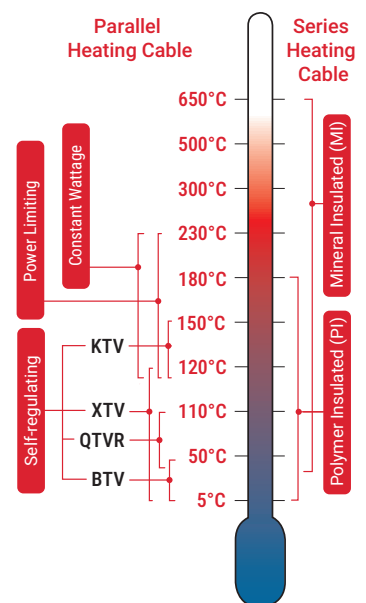
As the inventor of self-regulating heat-tracing technology, with over 500,000 km heating cable sold in over 100 countries, **nVent's RAYCHEM** is the most recognized brand and global standard in heat tracing.

nVent offers the industry's most complete line of heat-tracing product technologies to meet every need for everything from pipe freeze protection to high temperature process maintenance. We provide solutions that cover a wide range of temperature and length requirements for any application.

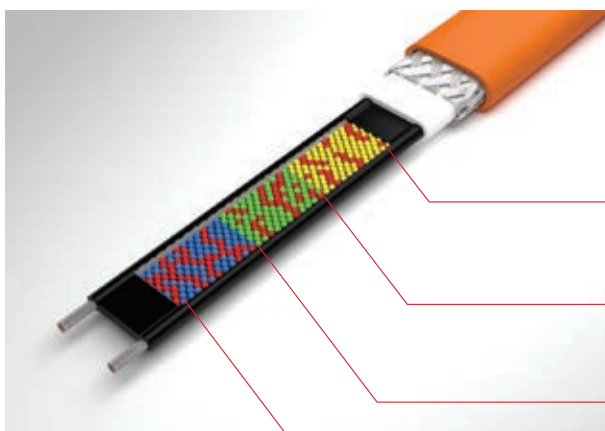


Heating Cable Selector

Typical Maintain Temperature



Self regulating heating technology



Cold Pipe: In response to cold, the core or fiber contracts micro-scopically opening up electrical paths.

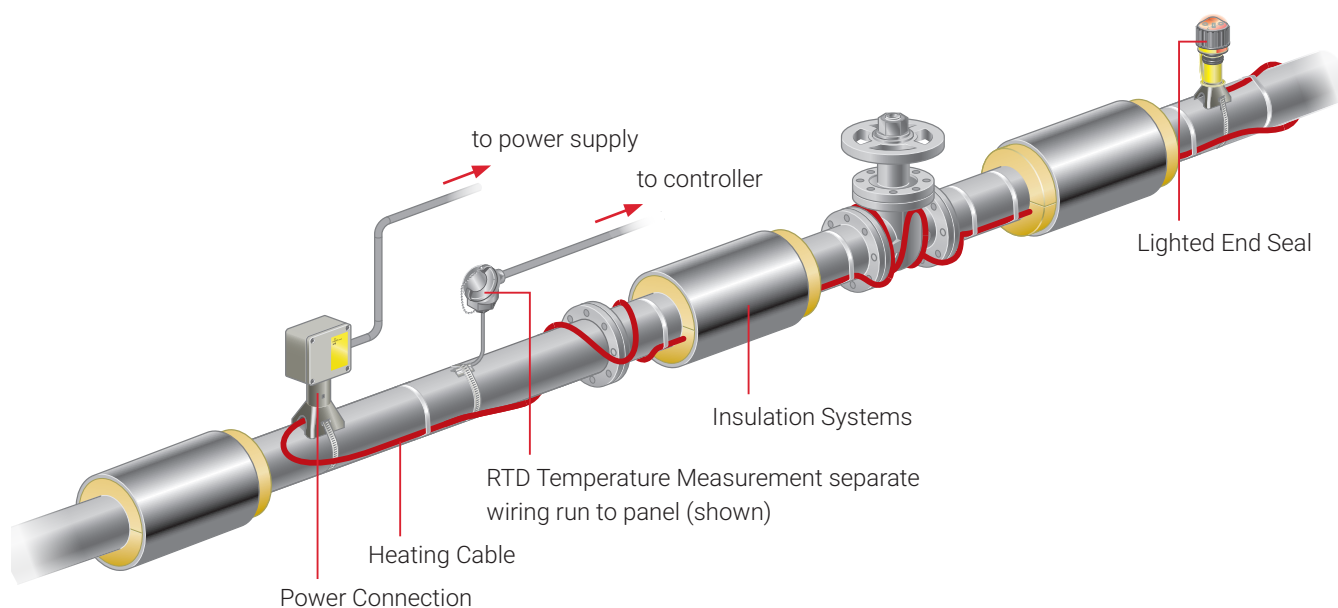
Warm Pipe: In response to warmth, the core or fiber begins to expand microscopically disrupting the electrical paths.

Hot Pipe: The core or fiber expands enough to disrupt almost all of the electrical paths.



More than just a heating cable

- We offer a wide range of **heating cable** technologies (self-regulating, power limiting, constant wattage, polymer & mineral series resistance, skin effect tracing), up to 650°C maintain and 1000°C exposure temperatures, and up to 25km circuit lengths.
- Our **components** allow for fast installation and reliable electrical connections.
- Our **control systems** range from simple mechanical thermostats to advanced control and central monitoring, with DCS integration for full visibility.



As an endorsement of our product quality and our commitment to providing customer value, we offer extended product warranty programs.

Our systems are tested to the most stringent industry standards and certified by major agencies including FM, CSA, UL, PTB, Baseefa, NEPSI, DNV, ABS, etc





Heat tracing design & support

We can do it with you.

With our FREE heat tracing design tools, you can create your own heat-tracing design in a few simple steps:

- Enter design parameters and pipe dependencies
- Get optimal result for your application, including bill of materials
- Request a quote online

Visit our website and start immediately, with **TraceCalc Net** (online), or **TraceCalc Pro** (FREE download).



We can do it for you.

We are experts in electrical heat tracing systems, providing turnkey project services around the world. From concept to delivery and even during operations: we can optimize your heat tracing projects for timing, budget and scope with a fully integrated approach and utilizing time-tested methods and tools.

Contact us today at thermal.info@nVent.com

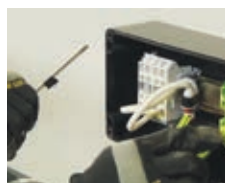


Learn more about our applications and installations on our youtube channel
<https://www.youtube.com/user/ThermalControls>

Visit nvent.com/RAYCHEM

Our website provides all the latest tools and information you need to design, select, and purchase a complete heat-tracing system. Use our web-based program, or download design software to help you with your projects.

Browse and find the most up-to-date product brochures, data sheets and installation instructions.



nVent RAYCHEM JBM-Junction Box Installation



nVent RAYCHEM E-100 End Seal Kit Installation

We have the capabilities to make the difference in any project, from increasing safety to adding comfort while lowering total installed costs.

We are where you need us, with more than 9000 employees and partnerships with leading wholesalers, we service the globe. We travel the globe to support our customers in their most exigent projects, providing design and installation support where needed.

400+
Patents

9,000
Global
workforce

One nVent



Global
customers



Positioned to serve
fast-growing
economies



Local capabilities,
and localized
solutions

80+
Manufacturing,
service, sales and
distribution centers

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Our powerful portfolio of brands:

CADDY

ERICO

HOFFMAN

NUHEAT

PYROTENAX

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