



CONNECT AND PROTECT

COMMERCIAL KITCHEN GREASE
WASTE FLOW MAINTENANCE SYSTEM



RAYCHEM



WHY A GREASE WASTE SYSTEM NEEDS HEAT TRACING

Grease interceptors in commercial kitchens are often required as a means of preventing Fat, Oil and Grease (FOG) from discharging into municipal sewer systems. As building design trends are pushing interceptors further away from the kitchen and capturing more points of use as part of a larger system, it becomes vital to heat the FOG to its optimal viscosity from the initial flow point to the interceptor to prevent blockage, maintain flow and optimize grease interceptor performance. Since FOG separates and interceptors perform at their best when the effluent is hot, generally ranging from 105-115°F, thermal insulation of the pipes alone is not sufficient to keep grease waste free flowing.

Modern commercial kitchens also need to be concerned about not discharging any FOG to municipal sewers. If effluent is too hot or too much volume is delivered to the interceptor at one time, FOG can bypass the grease interceptor and congeal downstream in the sewer. This can lead to serious sewer clogging issues and heavy fines for offenders.



The avoidable result — clogged grease lines that lead to the shutdown of commercial kitchens, potential loss of use litigation, and costly remediation and repairs.



nVENT RAYCHEM GREASE WASTE FLOW MAINTENANCE SYSTEM KEEPS LINES FREE FLOWING

nVent RAYCHEM self-regulating heat-tracing system efficiently maintains grease waste lines with the right amount of heat to ensure proper flow and help optimize grease interceptor performance. The self-regulating cable automatically reduces its output as the pipe warms – with no risk of over or under-heating, and no wasted energy – which saves you money.

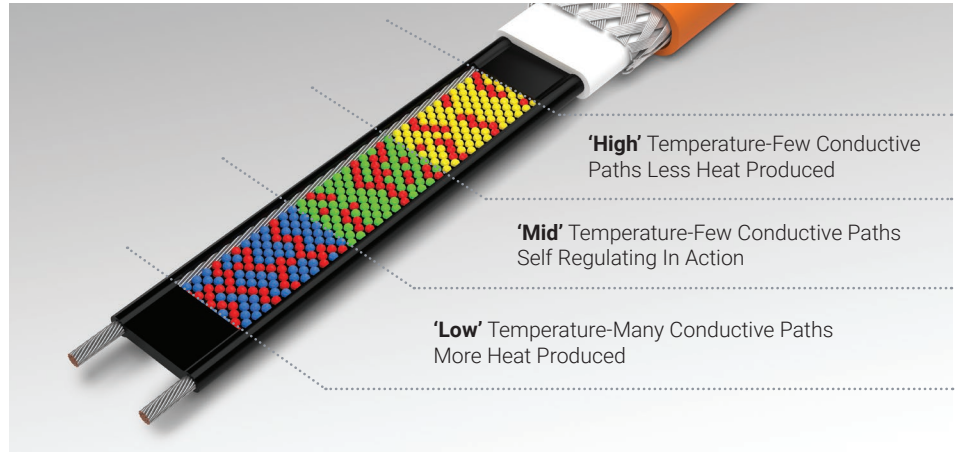
nVent RAYCHEM heat-trace cables can be installed on metal or plastic pipes, can be wrapped around valves and other heat sinks and can be used for above ground or buried pipes.

HOW SELF-REGULATION WORKS IN RAYCHEM CONDUCTIVE-POLYMER HEATERS

SELF-REGULATING TECHNOLOGY – RIGHT AMOUNT OF HEAT

At higher temperatures, the polymer expands, reducing the number of electrical paths thereby reducing the power output of the cable. At low temperatures, there are many conductive paths, allowing higher level of current to flow between the bus wires.

Producing the ‘right amount of heat’ saves you money with no wasted energy.



TESTED AND QUALIFIED

nVent RAYCHEM's range of heating systems are tested to the most stringent industry standards to ensure maximum reliability and performance for our customers.



ROBUST CONSTRUCTION

Long service life assured through modified polyolefin or fluoropolymer insulation and jacket materials.

LIFE EXPECTANCY

Extensive scientific testing and field history prove that when properly installed and maintained, the self-regulating cables are expected to work for many decades. An industry leading 10 year extended warranty is available.

HOW DOES THE SYSTEM WORK?

OUR NVENT RAYCHEM XL-TRACE (CT) SELF-REGULATING HEAT-TRACE CABLES WITH FLUOROPOLYMER OUTER JACKET, MAINTAIN FLUID TEMPERATURES IN GREASE WASTE DISPOSAL LINES.

Flow maintenance involves heating a fluid in order to lower its viscosity so that it can be moved through a pipe or a tank.

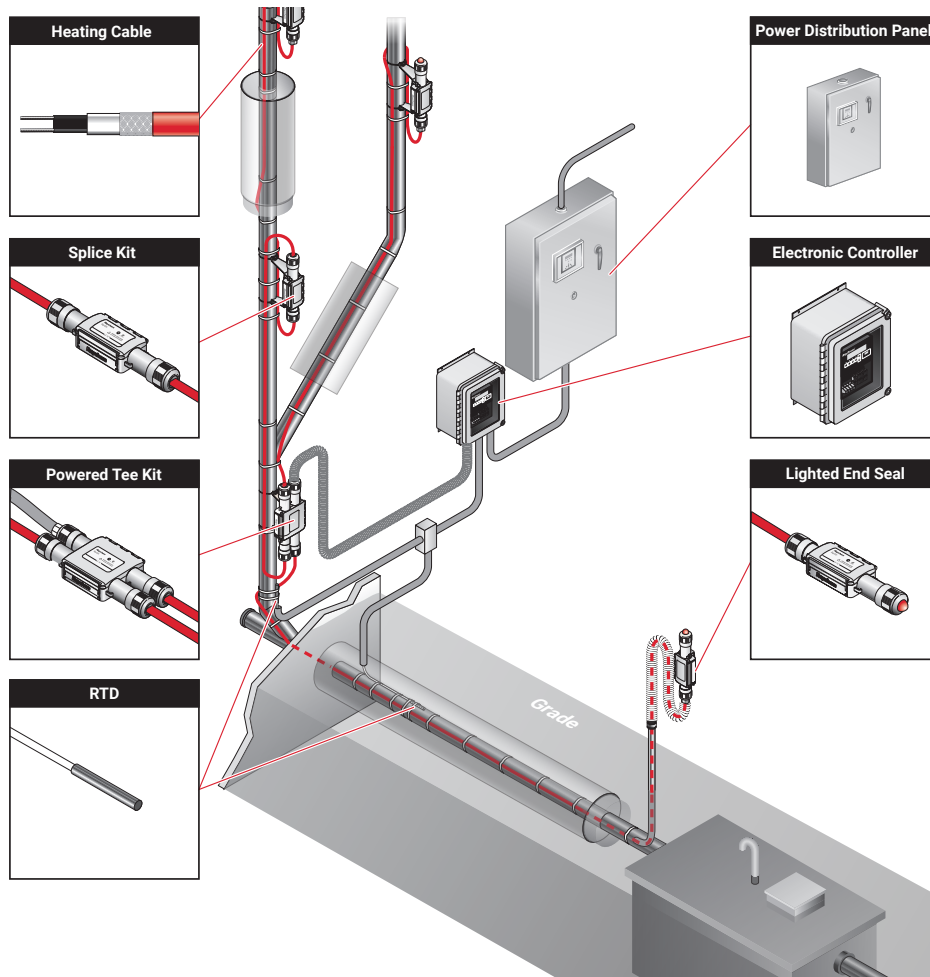
Our Grease Waste Flow Maintenance system is typically designed to maintain 110°F (43°C) fluid temperature to keep the FOG mixture in suspension from the kitchen to the grease interceptor.

The grease waste lines must exit the building to an exterior grease interceptor, and must be kept at a certain temperature along the entire distance to keep the FOG from congealing.

Typical applications include:

- Grease waste lines in commercial kitchens and restaurants
- Pre-wash stations
- Floor drains

Our heat-tracing system includes specified heating cables, power connections, splices and tee connections, controls, contactors, power distribution panels, and accessories necessary for a complete and economical solution.



TYPICAL GREASE WASTE FLOW MANAGEMENT SYSTEM

GREASE WASTE FLOW MAINTENANCE SYSTEM TECHNOLOGY & BENEFITS



C910-485

RELIABLE TEMPERATURE CONTROL

The nVent RAYCHEM C910-485 single-point heat-trace controller is designed to work with XL-Trace (CT) cables to provide accurate line sensing and user friendly measurement and control for heating cables. It can monitor and alarm for high and low temperature and current, ground-fault level, and voltage.

SAFETY

nVent requires the use of a 30-mA ground-fault protection device (GFPD) to provide maximum safety and protection from fire.

COMPLETE SYSTEM SOLUTION

Easy to Install nVent RAYCHEM RayClic components, XL-Trace (CT) heating cables and controllers provide a complete and easy to design and install system solution.

DESIGN FLEXIBILITY

The trend is for grease interceptors to be located further from buildings. Our Grease Waste Flow Maintenance system often allows for a reduced pitch angle which makes desired interceptor placement more practical and cost effective.



RayClic

COST SAVINGS

Installing our heating cable solutions on grease lines prevents FOG from congealing in grease lines, and avoids costly loss of use, cleaning and repair charges and municipal fines.

TECHNICAL & PROJECT SERVICES

Our experts are available to address all types of projects to ensure optimized designs and performance.

APPROVALS



5XL1-CT
5XL2-CT



8XL1-CT
8XL2-CT



5XL1-CT 8XL1-CT 12XL2-CT
5XL2-CT 8XL2-CT



XL-Trace (CT)

TRUST THE LEADING BRAND

As the inventors of nVent RAYCHEM heat-tracing products, with more than 1.75 billion feet installed worldwide, we are the preferred brand by engineers and installers.



DESIGN TOOLS



TraceCalc Pro

ONLINE DESIGN TOOL

The Trace-Calc Pro for Buildings tool lets you create a design project that can contain multiple applications, multiple circuits, and multiple pipe segments with different design parameters on a single circuit.

- Easily create a Grease Waste Flow Maintenance application design calculating temperature, circuit lengths, power and much more
- Generate summary and BOM quickly
- Save your projects for future use
- [Access the online tool from our website](#)

MasterSpec®

a product of The American Institute of Architects



SPECIFICATIONS/ CAD DRAWINGS

Downloaded latest nVent RAYCHEM specifications and detail drawings on our partner portals:

- [CADdetails](#)
- [MasterSpec](#)



bimobject®

BIM DESIGN & MODELING TOOLS

Trace-It Add-In

The new nVent RAYCHEM Trace-It 2.0 add-in enables designers working in Autodesk Revit to design, calculate and specify reliable, high quality heat-tracing solutions directly and quickly within their BIM models.

- Calculate and specify heat tracing designs within BIM models
- [Download Trace-It on Autodesk App store](#)

BIM Families

- nVent RAYCHEM provides a suite of BIM families to help designers incorporate heat tracing systems into their BIM designs.
- [Download our latest heat tracing families for AutoDesk Revit](#)
- [Learn more about BIM on our website](#)



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Our powerful portfolio of brands:

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