



CONNECT AND PROTECT

Make Your Pipes Winter Safe!
Protection. Prevention.


nVent

RAYCHEM

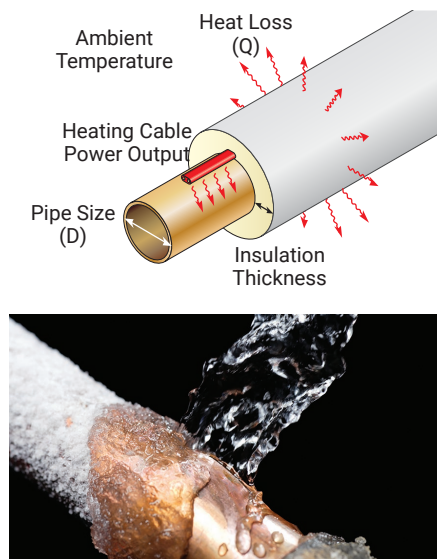
Does This Happen To Your Pipes?

PIPES ARE VULNERABLE TO COLD TEMPERATURES

Water freezes in the pipe when it is static and exposed to ambient temperatures below 32°F. How quickly this happens depends on temperature, pipe diameter, and insulation thickness.

PIPES AT RISK INCLUDE:

- Water lines in unheated rooms or located in attics, above ceilings, in crawl spaces and basements, and close to exterior walls
- Fire Protection lines
- Greasy Waste lines
- Fuel Oil lines



RISK FOR DAMAGE, INCONVENIENCE, AND SAFETY HAZARD:

- Cold temperatures can cause pipes to freeze so water cannot flow due to ice blockage
- Pipes can burst when water freezes, requiring water to be shut off for repairs
- Water leaks from burst pipes can cause significant damage to the building and personal property
- Building usage is disrupted
- Repairs can be costly
- Insurance premiums can be increased
- Lost revenue in commercial buildings

MAKE YOUR PIPES WINTER SAFE!

Our Solutions

PROTECT YOUR PIPES WITH NVENT RAYCHEM HEATING CABLE SYSTEMS PREVENT FREEZING, BURSTING, OR LACK OF FLOW.

FrostGuard,
Gardian and
WinterGard



nVent RAYCHEM's basic solutions offer simple preassembled plug-in kits and easy-to-install heating cables. Ideal for these conditions/desired features:

- Residential or small buildings
- 120 V or 240 V
- Pipes diameters up to 2-1/2" for FrostGuard and Gardian; up to 6" for WinterGard Wet
- Polyolefin jacket

Water lines: Gardian and WinterGard can add a precise level of heat to prevent water pipes from freezing.



XL-Trace



RAYCHEM's high performing, cut-to-length heating cable solution meets the most stringent code requirements for freeze protection of water, fire protection, greasy waste, and fuel oil piping. Ideal for these conditions/desired features:

- Large commercial buildings
- 120 V or 208-277 V
- Pipes of all sizes
- Polyolefin or Fluoropolymer jacket
- Advanced control options

Water lines: XL-Trace systems can add a precise level of heat to prevent water pipes from freezing.

Fire Protection lines: XL-Trace fire sprinkler freeze protection systems can freeze protect aboveground and buried supply pipes, fire standpipes, branch lines and branch lines containing sprinklers when run in areas subject to freezing. XL-Trace is c-CSA-us Certified for use on fire suppression systems under CSA C22.2 No. 130-03 for Canada and IEEE 515.1-2005 for the US.

Greasy Waste lines: XL-Trace greasy waste flow maintenance systems maintain cooking greasy waste lines above the temperature at which the viscosity inhibits fluid flow.

Fuel Oil lines: XL-Trace fuel oil flow maintenance systems maintain #2 fuel oil lines above the temperature at which the viscosity inhibits fluid flow.



Pipe Freeze Protection System Estimate Form

Email completed form to your nVent Sales Rep for a complete Bill of Materials and quote!

CHECK OUT TRACECALC PRO FOR BUILDINGS, OUR ONLINE PIPE TRACE DESIGN TOOL at www.nVentthermal.com by selecting the Commercial or Residential segment -> Resources and click on the **TraceCalc Pro for Buildings** design tool.

1. Building Type:	☐ House	☐ Small shop / strip mall	☐ High-rise residential/multi-use bldg.	☐ Commercial building
2. Line Name:				
3. Application:	☐ Water Lines	☐ Water Lines	☐ Water Lines	☐ Water Lines
	☐ Fire Protection Lines	☐ Fire Protection Lines	☐ Fire Protection Lines	☐ Fire Protection Lines
	☐ Greasy Waste Lines	☐ Greasy Waste Lines	☐ Greasy Waste Lines	☐ Greasy Waste Lines
	☐ Fuel Oil Lines	☐ Fuel Oil Lines	☐ Fuel Oil Lines	☐ Fuel Oil Lines
	☐ Other: _____	☐ Other: _____	☐ Other: _____	☐ Other: _____
4. Location:	☐ Above Ground ☐ Below Ground	☐ Above Ground ☐ Below Ground	☐ Above Ground ☐ Below Ground	☐ Above Ground ☐ Below Ground
5. Minimum Ambient:	☐ -20 ☐ -10 : ☐ 0 ☐ +65 (indoor)	☐ -20 ☐ -10 : ☐ 0 ☐ +65 (indoor)	☐ -20 ☐ -10 : ☐ 0 ☐ +65 (indoor)	☐ -20 ☐ -10 : ☐ 0 ☐ +65 (indoor)
6. Maintain Temp (°F):	_____ (°F)	_____ (°F)	_____ (°F)	_____ (°F)
7. Max Pipe Temp (°F):	☐ 150 ☐ 185 ☐ Other _____	☐ 150 ☐ 185 ☐ Other _____	☐ 150 ☐ 185 ☐ Other _____	☐ 150 ☐ 185 ☐ Other _____
8. Voltage:	☐ 120 V ☐ 208 V ☐ 240 V ☐ 277 V	☐ 120 V ☐ 208 V ☐ 240 V ☐ 277 V	☐ 120 V ☐ 208 V ☐ 240 V ☐ 277 V	☐ 120 V ☐ 208 V ☐ 240 V ☐ 277 V
9. Circuit Breaker Size:	☐ 15 A ☐ 20 A ☐ 30 A ☐ 40 A	☐ 15 A ☐ 20 A ☐ 30 A ☐ 40 A	☐ 15 A ☐ 20 A ☐ 30 A ☐ 40 A	☐ 15 A ☐ 20 A ☐ 30 A ☐ 40 A
10. Length of Pipe:	_____ ft	_____ ft	_____ ft	_____ ft
11. Pipe Diameter:	_____ in	_____ in	_____ in	_____ in
12. Pipe Material:	☐ Metal ☐ Plastic	☐ Metal ☐ Plastic	☐ Metal ☐ Plastic	☐ Metal ☐ Plastic
13. Number of Valves:				
14. Supports Outside Insulation?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
15. Number of Flanges:				
16. Insulation Type:	☐ Fiberglass	☐ Fiberglass	☐ Fiberglass	☐ Fiberglass
	☐ CalSil	☐ CalSil	☐ CalSil	☐ CalSil
	☐ Cellular Glass	☐ Cellular Glass	☐ Cellular Glass	☐ Cellular Glass
	☐ Rigid Cellular Urethane	☐ Rigid Cellular Urethane	☐ Rigid Cellular Urethane	☐ Rigid Cellular Urethane
	☐ Foamed Elastomer	☐ Foamed Elastomer	☐ Foamed Elastomer	☐ Foamed Elastomer
	☐ Mineral Fiber Blanket	☐ Mineral Fiber Blanket	☐ Mineral Fiber Blanket	☐ Mineral Fiber Blanket
	☐ Expanded Perlite	☐ Expanded Perlite	☐ Expanded Perlite	☐ Expanded Perlite
17. Insulation Thickness:	_____ in	_____ in	_____ in	_____ in
18. Control On:	☐ Line Temperature	☐ Line Temperature	☐ Line Temperature	☐ Line Temperature
	☐ Ambient Temperature	☐ Ambient Temperature	☐ Ambient Temperature	☐ Ambient Temperature
19. Controls Provide GFPD?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
20. # of Tee Connections Required?				
21. Notes:	BUSINESS CARD			
22. Customer name:				
Company:				
Phone:				
Email:				
Project name:				

North America

Tel +1.800.545.6258

Fax +1.800.527.5703

thermal.info@nvent.com

Our powerful portfolio of brands:

CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER



[nVent.com](https://www.nVent.com)