

Retro-Line®

Leading Advanced Internal Water Supply Pipe Freeze Protection Systems

Retro-Line is a job-ready freeze protection kit designed to be installed in minutes inside existing water supply pipes from 3/4" to 2" of many piping materials.



See more product information, videos, photos, technical documents, and more



Patents USA and Canada NSF/ANSI 61

Retro-Line

Features & Benefits

- The only manufactured complete self-regulating heating cable system designed for in-pipe applications, independently certified safe by third-party agencies
- Multiple plumbing fittings available – Tees in ID-IPS, CTS and OD-IPS sizes, MIPT threads in 1 inch to 2 inch sizes
- Available in a plug-in GFCI model or hard wire cord-set model depending on application
- Completely customizable for various application requirements
- Length can be adjusted (shortened) on the job-site by means of extracting the heating cable through plumbing fitting (contact Heat-Line for guidance)
- Available in common lengths and long lengths
- Suitable for pipe diameters ¾ inch to 2 inch, for larger pipe diameters see Retro-FM
- Withstands water pressure up to 230 PSI
- Suitable for installation in plastic or metal pipes
- Can be installed into existing pipes without excavation
- Can be pushed in most pipes up to 300 feet
- Long systems can be drawn in with fish tape or twine
- Lengths 40 feet and greater are supplied on a dispensing reel for ease of installation
- Heating cable is rigid enough to stay in place within the entire length of pipe, no downward fastening device
- Fully serviceable, can easily be removed if necessary
- Suitable for above ground applications with insulation
- Suitable for sump pump lines
- Will never melt or overheat, even if pipe is dry
- Proven in -40°F weather above ground with ¾ inch polyethylene insulation



Specifications

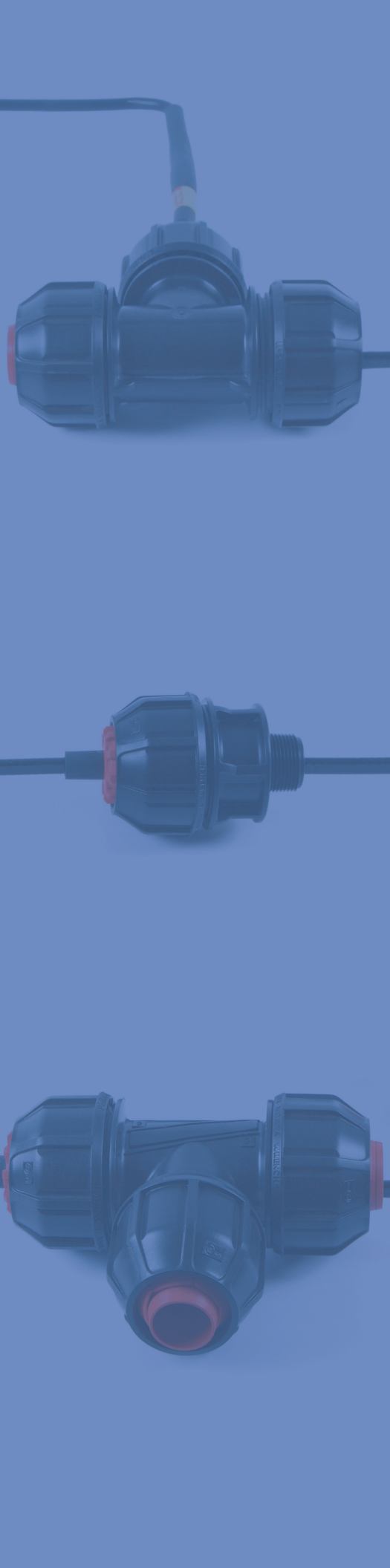
- cCSAus approved (Canada and USA) LR85446
- NSF/ANSI 61 Drinking Water Safe
- Approved for potable drinking water
- Certified Usage Type P and X Canada
- Installation Type D USA
- Self-regulating/conductive polymer heating cable
- Fluoropolymer outer jacket
- Standard wattage 3 W/ft @ 50°F (10 W/m @ 10°C), 5 W/ft @ 50°F (16 W/m @ 10°C) available by special request
- Available in 120V and 240V
- Max lengths 120V - 230 ft, 240V - 550 ft
- Available with either GFCI plug or CS hard wire connection
- Proprietary end seal technology engineered and third party tested for applications up to 230 PSI
- Standard warranty of 5 yrs with optional 10 yrs

Applications

- Existing water supply lines subject to freezing
- Rural home and business water supply systems
- Sump pump lines
- Lake homes and cottages/cabins
- Wells
- Farms, agriculture/commercial, industrial/construction sites
- Camps/mining
- Lake/river source waterline
- Certain municipal water supplies

For more Features and Benefits common to all Heat-Line systems, refer to page 6.





Internal Water Supply Freeze Protection

Retro-Line is an internal self-regulating heat tracing system designed to provide freeze protection of existing water supply and fluid pipes without their removal. Insulation and an optional thermostat can be used to optimize energy efficiency.

CSA/NSF Approved

Retro-Line is the only cCSAus NSF/ANSI 61 Drinking Water approved, internal self-regulating P and X factory finished freeze protection system available on the market.

Complete System

The Retro-Line system is supplied in a predetermined length with all necessary components for a complete system. For polyethylene pipe applications Retro-Line is supplied with a compression fitting for connection to the pipe.

Multiple Interfacing

An ID controlled tee fitting for polyethylene pipe is supplied standard with the Retro-Line system. Retro-Line can also be ordered with a CTS controlled tee or a threaded male adapter for easy interfacing to pipe such as ABS, PVC, PEX, copper, galvanized and steel.

Requirements

Retro-Line orders require the length of heating cable and pipe size for polyethylene installations or male adapter thread size for other pipe installations. System lengths are 120 volt up to 230 feet and 240 volt up to 550 feet. Minimum pipe size required is 3/4 inch ID.

Fully Serviceable

Short Retro-Lines can simply be pushed into the pipe while longer systems may be pulled in using a fish tape. The downward end of the cable does not need to be internally fastened, as it will not re-coil, which is extremely important as it renders the system fully serviceable. The system can be removed and replaced should it become necessary.

Easy Installation

Heat-Line developed a unique, patented dispensing system called "Retro-Reel" to protect the heating cable and fittings from mechanical injury while the product is deployed into the pipe with absolute ease. It is not unusual to push systems in up to 250 feet and sometimes more.

Versatile Application

Retro-Line can be used in a variety of applications, including metal and plastic water supply, sump pump lines and pressurized or high volume drain pipes.

Retro-Line | Product Code Guide

Example: **RL - 125 - 100 - CTS - GFC**

Product	RL 120 V Retro-Line RL2 240 V Retro-Line	Cord-Set Type	GFC Ground fault protected 5-15 P 120 V / 6-15 P 240 V CS Cord connected (no GFCI)
Fitting/Pipe Size	075 Fitting/pipe size 3/4" * 100 Fitting/pipe size 1" 125 Fitting/pipe size 1 1/4" ** 150 Fitting/pipe size 1 1/2" 200 Fitting/pipe size 2"***	Fitting Type	ID Internal pipe diameter ID-IPS tee fitting CTS Copper tubing size CTS tee fitting OD Outside pipe diameter OD-IPS tee fitting IP Male adapter (thread size) MIPT fitting NI 1" and 1 1/4" kit internal pipe diameter ID tee
	* Not available in IP ** NI fitting type must chose 125 *** Not available in CTS	Length of System	120 V max length 230 ft 240 V max length 550 ft

NOTE: The heating cable is measured and cut to the length of system ordered. Some of this length will remain within the interface fitting. Nominal power output of Retro-Line system is 3 W/ft @ 50°F (10 W/m @ 10°C). Only available in Drinking Water Safe Fluoropolymer outer heating cable jacket.

Retro-Line | Accessories

HLJ-STAT	120V plug-in thermostat (GFC)	FRIO-S1-A	120/240V hard wire digital and adjustable thermostat with WIFI/ Ethernet and GFEP (CS)
HLA-120	120V plug-in thermostat (GFC)	MA-10	120/240V GFCI/ELCI (CS)
GFA-STAT	120/240V hard wire thermostat GFEP (CS)	INSUL-1.00	Insulation sleeve for 1 inch ID pipe (1 5/8 inch ID, 6 ft long)
GPT-130	120/240V hard wire thermostat GFEP (CS)	INSUL-1.25	Insulation sleeve for 1 1/4 inch ID pipe (1 7/8 inch ID, 6 ft long)
HLP-STAT	120/240V hard wire thermostat (CS)	INSUL-2.00	Insulation sleeve for 2 inch ID pipe (2 5/8 inch ID, 6 ft long)
TIMER-120P	120V plug-in timer (GFC)	HLP-TAPE	Tape for insulation sleeve butt joints (100 ft)
TIMER-240P	240V plug-in timer (GFC)	WARRANTY	Extended 10 year limited warranty
TIMER-CS	120/240V hard wire timer (CS)		
FPC-02-120-OD	120V hard wire digital and adjustable thermostat GFEP (CS)		
FPC-02-240-OD	240V hard wire digital and adjustable thermostat GFEP (CS)		

Retro-Line | Sample Installation

