



Retro-Line® Mini

Small Geometry Internal Freeze Protected Water Supply Systems

Installation Instructions

General Information

Retro-Line Mini systems are an internal (in-pipe) freeze protected, potable, domestic water supply line systems adaptable to ALL areas where natural frost protection cannot be achieved. These are high performance products designed to work in cold and harsh environments. Retro-Line Mini products are uniquely adaptable to many types of applications. System requirements will vary a great deal in accordance to ground conditions.

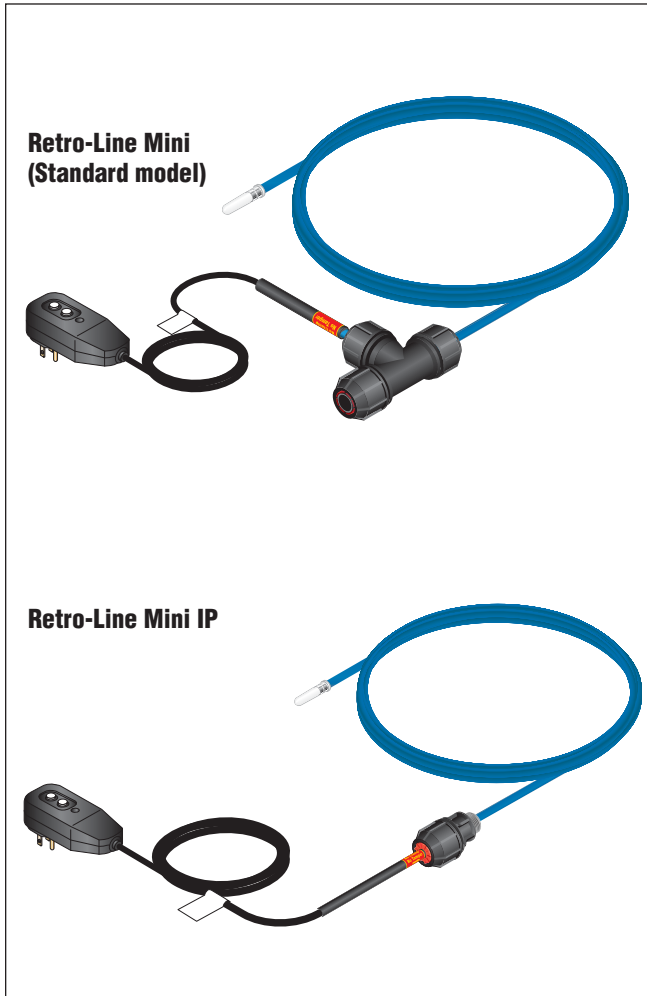
It is recommended that the Retro-Line Mini installation be made by a qualified tradesperson. This will ensure that optimum performance is achieved in each installation. Variables include: retro-fitting of existing pipes - shallow buried in ground or rocky geography especially where thermostatic control is not possible - free air installations above ground and insulated - with or without thermostatic control.

Thermostatic controls and timers are optional but should be considered for every application for further energy savings if applicable. The use of insulation should also be considered for cold weather reliability and energy efficiency.

- A. This heating cable set shall be installed in accordance with the National Electrical Code (USA) or the Canadian Electrical Code.
- B. It is imperative that for all installations where the pipes are exposed to the outside ambient temperature that weatherproof insulation be used. (Wall thickness ½ inch minimum). Heat-Line offers closed cell foam types, foil/air bubble type and others. Other types of weather-proof insulations may also be used.
- C. Retro-Line Mini can be used even when there is no water in the pipe. Retro-Line Mini WILL NOT melt your water pipe. In the event of power failure your system may freeze. The system will however re-energize immediately following power restoration and will thaw out again. In most cases no damage to pipes will be encountered.
- D. When installing in metal pipes, always be sure that there are no sharp edges and pipes are properly reamed smooth.

Retro-Line Mini is a technically advanced product. Handle it with proper care and be sure not to damage the outer sheath or jacket of the cable.

Read the Safety Instructions and Installation Instructions completely before installing this product.



Approvals



Usage P and X
Installation Type D USA

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WARNING:

Important Safety Instructions and Rules for safe Installation and Operation

- A. Read these rules and instructions carefully. Failure to follow them could result in serious bodily injury and/or property damage.
- B. Check your local building, plumbing and electrical codes before installing. You must comply with their rules. Retro-Line Mini is cCSAus Drinking Water NSF/ANSI 61 approved for use in Canada and the USA.
- C. Before installing this product have the electrical outlet checked by an electrician to make sure it is properly installed and grounded.
- D. Do not install the Retro-Line Mini tee connection junction point in a manner that would render the system non-serviceable.
- E. Do not bury the connection point underground or in a location that may become flooded.
- F. Before installing or servicing your Retro-Line Mini BE CERTAIN that the power source is disconnected.
- G. Do not use extension cords.
- H. Heat-Line does not recommend the use of non-certified or non-industry standard polyethylene pipe when using the Retro-Line Mini standard model. The Philmac compression fittings supplied as part of the Retro-Line Mini Standard model products are cCSAus certified for use with certified polyethylene pipes. If non-certified or non-industry standard piping is installed, such as thin wall polyethylene, a licensed trades-person should observe the installation and certify that the Philmac fitting has made a secure compression. Pressure testing the system prior to service is highly recommended to ensure a proper connection.
- I. Retro-Line Mini is NOT approved or designed for use in sewer or waste systems. For sewer and waste systems use Heat-Line Paladin, EXT Series, Retro-DWS, Retro-FM or CARAPACE systems.
- J. Never tamper with or alter the electrical apparatus associated with your Retro-Line Mini system.
- K. Check unoccupied residences regularly to ensure that all systems are operating properly.
- L. Cold water use only.

WHEN PERFORMING WORK OR REPAIRS ON YOUR WATER SYSTEM BE SURE TO UNPLUG YOUR RETRO-LINE MINI SYSTEM FROM THE POWER SUPPLY.



Retro-Line® Mini (Standard Model)

Small Geometry Internal Freeze Protected Water Supply Systems

Installation Instructions



Description

The Retro-Line Mini standard model is supplied with a compression tee fitting of a specific size to interface into ID or OD polyethylene pipe. Fitting for OD polyethylene pipe is available in CTS and IPSOD sizes. Pipe size must be determined at time of order. See part numbers below.

Note: For pipe diameters larger than 1 inch CTS see Heat-Line's Retro-Line system.

Kit Contents

Qty	Description
1	Retro-Line Mini – Predetermined length (GFC shown)
1	Optional Cord-Set (CS) power connection

Optional Accessories

HLJ-STAT	NEMA 1 General Purpose 120V only plug-in Thermostat
HLA-120	NEMA 1 General Purpose 120V only plug-in Thermostat
GFA-STAT	NEMA 4X Ground Fault Protected Adjustable Thermostat 120V/240V 30 amp
MA-10	GFCI/ELCI Electrical Equipment Protection Device

Retro-Line Mini Ordering Chart

Example: **RLM - 3 - 050 - 130 - ID - CS**

Product	RLM 120 V Retro-Line Mini	Cord-Set Type	GFC Ground fault protected 5-15P 120V CS Cord connected (No GFCI)
Nominal Power Output	3 3 W/ft @ 50°F (10 W/m @ 10°C) 5 5 W/ft @ 50°F (16 W/m @ 10°C)	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
Fitting/Pipe Size	050 Pipe size 1/2" * 075 Pipe size 3/4" 100 Pipe size 1" **	Length of System	3 W/ft 120 V max length 130 ft 5 W/ft 120 V max length 100 ft

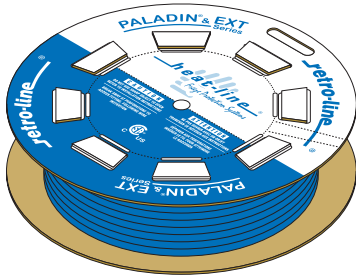
* ID pipes only
** CTS pipes only

NOTE: The heating cable is measured and cut to the length of system ordered. Some of this length will remain within the interface fitting. Only available in Drinking Water Safe Fluoropolymer outer heating cable jacket. Minimum pipe inside diameter must be 0.485" or greater. Cold water use only.

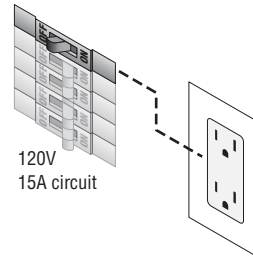
Retro-Line Mini Standard Installation

1

- Carefully remove your Retro-Line Mini system. It comes complete with all parts as required pre-assembled, enclosed inside of the reel. Retro-Line Mini units less than 40 feet not supplied on reel.



- It is recommended that a single circuit (15 amp) be installed by a qualified electrician for dedicated use of the Retro-Line Mini system. **Do not use extension cords.**



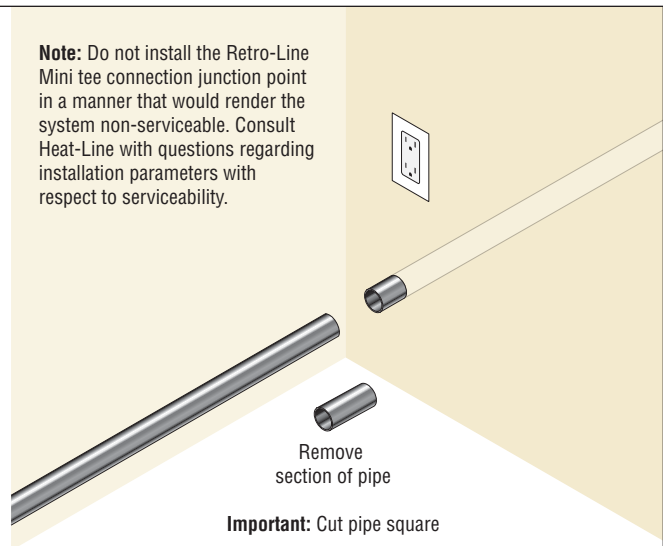
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- Determine point of entry into the pipe. Your Retro-Line Mini system is ordered by system (pipe) length. (See Retro-Line Mini Ordering Instructions on page 2).
- Cut out a section of the pipe to gain access, preferably on the inside of the building and near your power supply. (Reference chart below)

CAUTION: Care must be taken not to cut the pipe too short as it is necessary to draw the pipe into the fitting when making a joint.

Pipe Diameter		Section of pipe to be removed
1/2"	ID	4"
3/4"	ID	4 1/2"
3/4"	CTS	As per "PIPE ↑ STOP" lines on tee
1"	CTS	As per "PIPE ↑ STOP" lines on tee
3/4"	IPSOD	As per "PIPE ↑ STOP" lines on tee

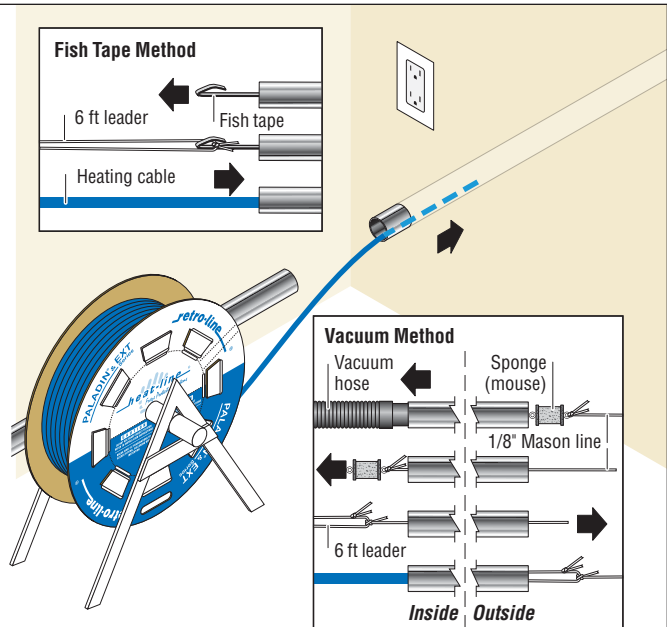
Note: Do not install the Retro-Line Mini tee connection junction point in a manner that would render the system non-serviceable. Consult Heat-Line with questions regarding installation parameters with respect to serviceability.



3

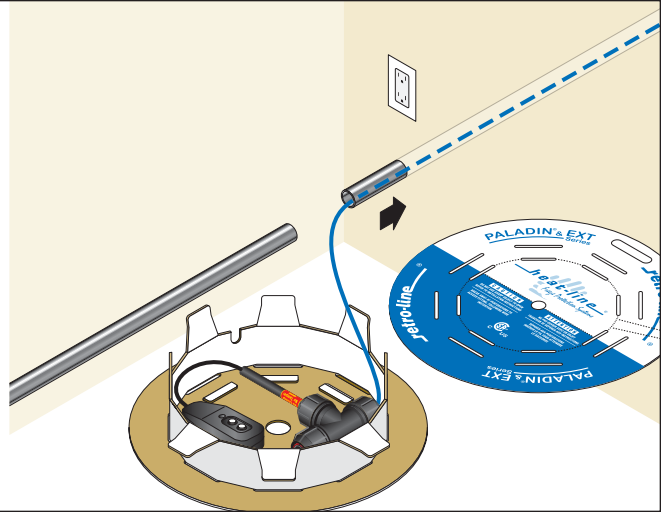
- Short Retro-Line Mini systems may be pushed in without the use of a fish tape or rope. Longer systems may require the use of a fish tape or other installation method. For long systems a vacuum can be used to draw a sponge "mouse" through the pipe with a 1/8" mason line attached. These sponges can be hand made or purchased from Heat-Line. Extra long systems may require "cutting in" a coupling or series of couplings to provide access points to pull in the Retro-Line Mini. When this is required it is important to use a Philmac® coupling furnished by Heat-Line.
- A 6 foot leader is provided with all Retro-Line Mini systems over 90 feet. This leader is your point of attachment for pulling in the Retro-Line Mini. If the leader is not required, remove it and simply push in the Retro-Line Mini into the pipe.
- A non-toxic, water based (potable) lubricant can be used to make cable insertion or pushing of long lengths easier.

NOTE: Retro-Line Mini systems in reasonably straight runs up to 100 feet can most often be pushed all the way in without pulling. The Retro-Line Mini leader is only provided as an aid to pulling. It is unable to withstand extremely hard pulls and will break if overstressed. Heat-Line will not be responsible should this occur.



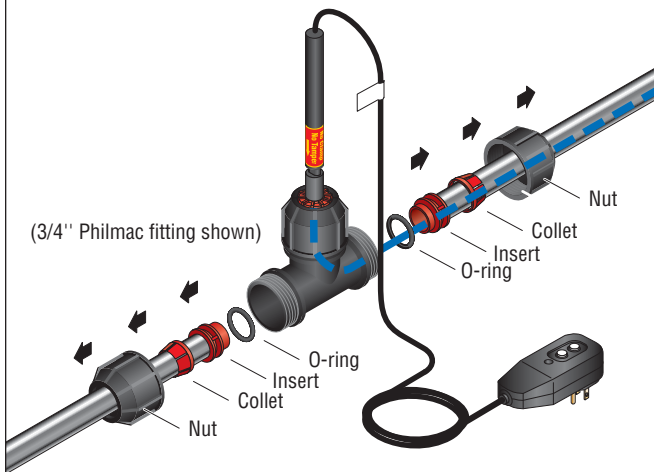
4

- Slowly push/pull the Retro-Line Mini into the pipe off of the reel. Upon total heater insertion, break open the reel at perforations, or lift tabs to remove lid as shown. **Do not use sharp instruments.** Finish insertion of the Retro-Line Mini until the Philmac fitting comes up tight.



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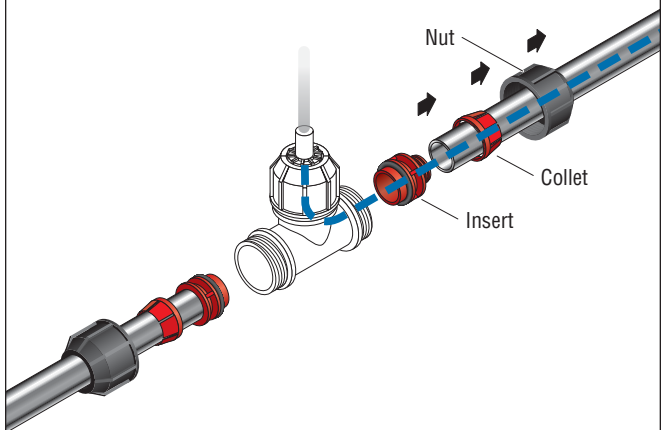
- Install Philmac fitting onto pipe. (Refer to installation steps **5A** for ID pipe applications or **5B** for CTS/IPSOD pipe applications).



5.1A Installing an ID Philmac Fitting

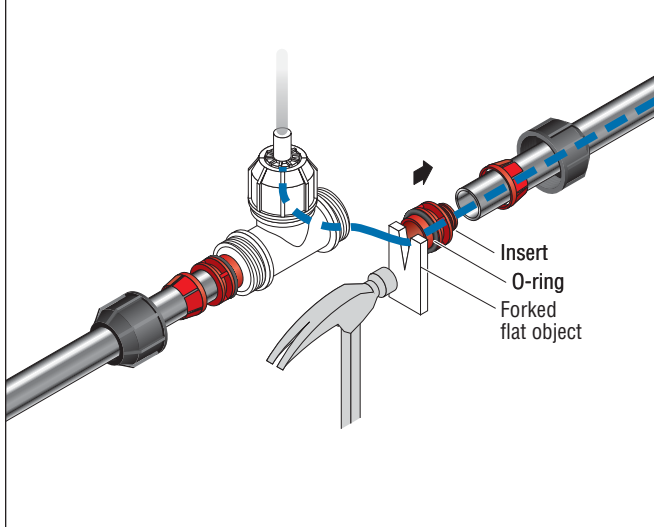
- Remove nut and split collet from central fitting and slide over pipe.

NOTE: Ensure the taper or split collet faces toward the nut.



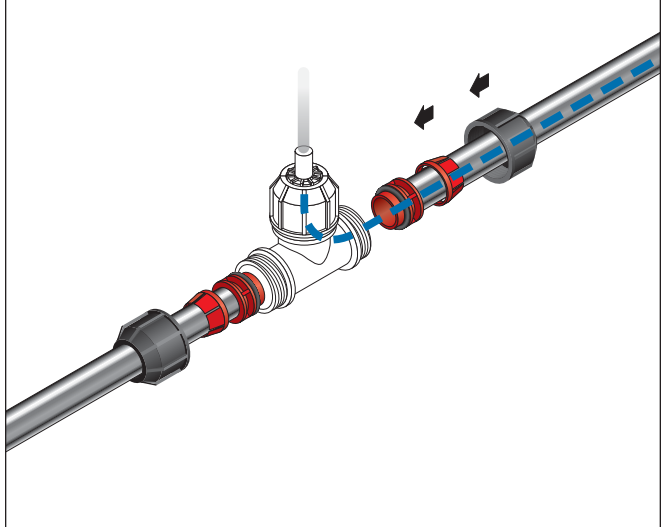
5.2A Installing an ID Philmac Fitting

- Tap insert into pipe preferably with a forked flat object. Ensure O-ring is correctly positioned on the insert. Take care not to hit or nick cable jacket.



5.3A Installing an ID Philmac Fitting

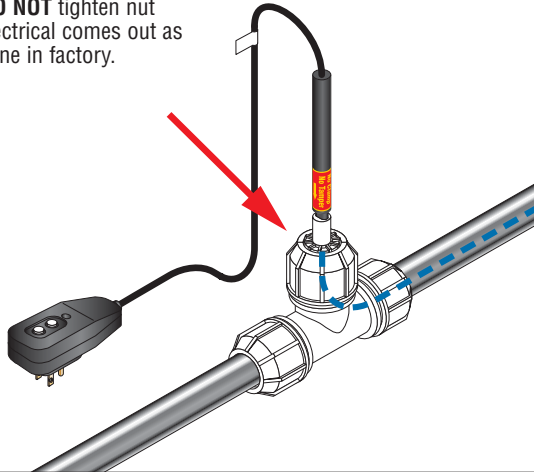
- Push fitting onto pipe with insert and O-ring. Slide split collet and nut up to the fitting and engage thread. Tighten with a wrench.



5.4A Installing an ID Philmac Fitting

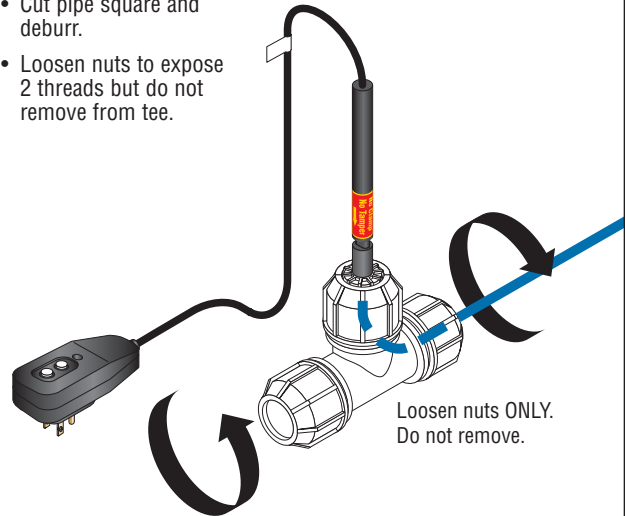
- Repeat for other side.

NOTE: DO NOT tighten nut where electrical comes out as this is done in factory.



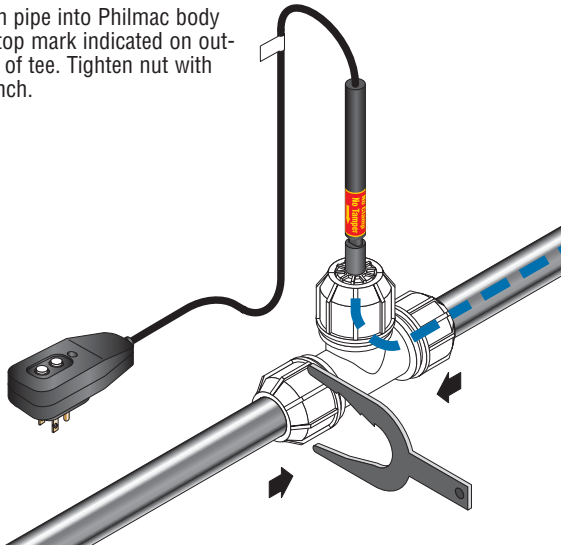
5.1B Installing an CTS/IPSOD Philmac Fitting

- Cut pipe square and deburr.
- Loosen nuts to expose 2 threads but do not remove from tee.



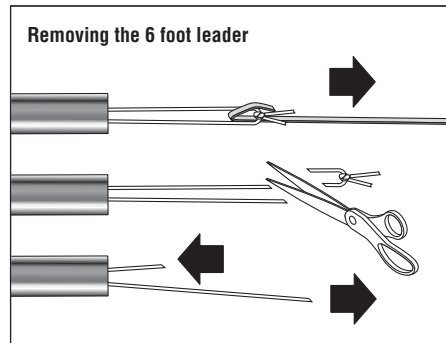
5.2B Installing an CTS/IPSOD Philmac Fitting

- Push pipe into Philmac body to stop mark indicated on out-side of tee. Tighten nut with wrench.



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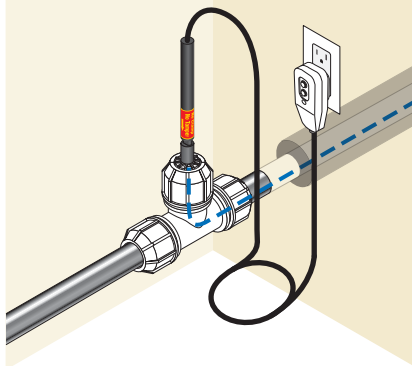
- If used, remove the 6' leader. Cut off the knot and remove from pipe by pulling on the side that moves easiest. Remove (see inset).



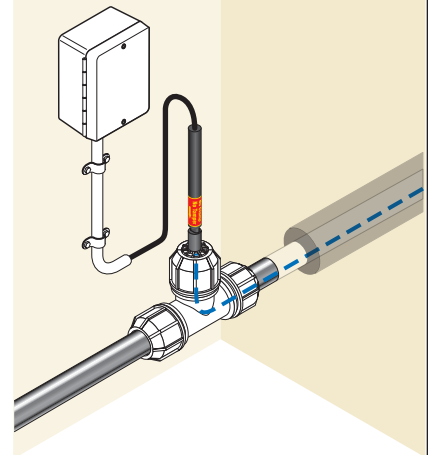
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- After all plumbing fittings have been completely installed, a licensed trades-person should observe the installation and certify that the Philmac fitting has made a secure compression. Pressure testing the system prior to service is highly recommended to ensure a proper connection.
Refer to control devices and insulation installation on page 12.
- **It is now time to energize your Retro-Line Mini system. Carefully follow the Electrical System Check instructions on page 10/11.**

Ground-faulted plug-in (GFC) model shown.



Cord set (CS) model shown. GFCI circuit protection required.





Retro-Line Mini IP

Small Geometry Internal Freeze Protected Water Supply Systems

Installation Instructions



Description

The Retro-Line Mini IP is supplied with a male adapter (MIPT) of a ½ inch thread size to interface into any pipe material such as polyethylene, PEX, copper, PVC, ABS, iron or galvanized through a tee or wye fitting. A ¾ inch male threaded adapter option is also available by request at the time of order.

Always be certain there are no sharp edges in metal pipes and always ream them smooth.

Note: For pipe diameters larger than 1 inch CTS see Heat-Line's Retro-Line system.

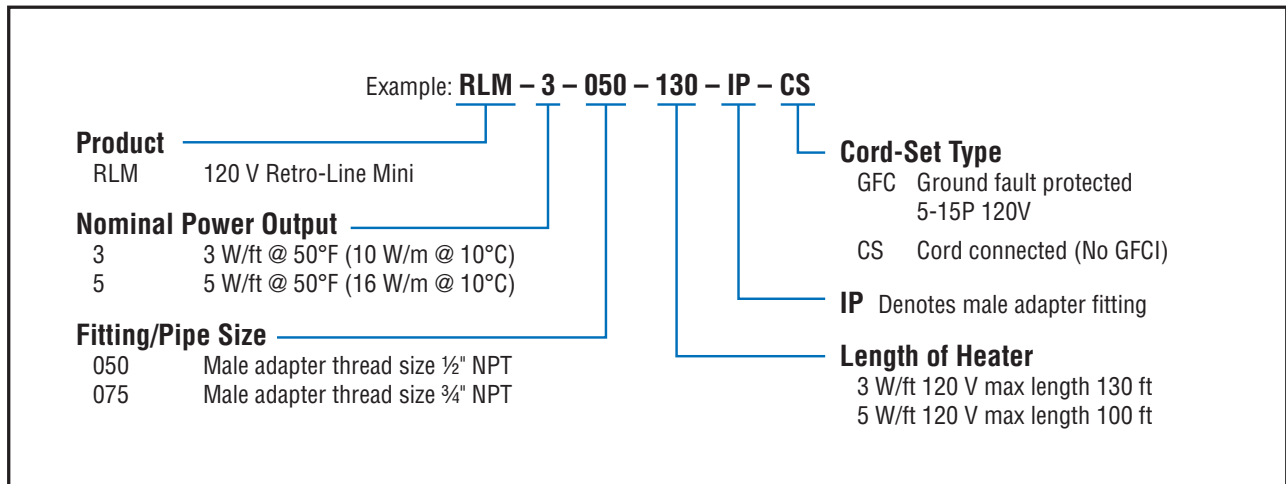
Kit Contents

Qty	Description
1	Retro-Line Mini IP – Predetermined length (GFC shown)
1	Optional Cord-Set (CS) power connection

Optional Accessories

HLJ-STAT	NEMA 1 General Purpose 120V only plug-in Thermostat
HLA-120	NEMA 1 General Purpose 120V only plug-in Thermostat
GFA-STAT	NEMA 4X Ground Fault Protected Adjustable Thermostat 120V/240V 30 amp
MA-10	GFCI/ELCI Electrical Equipment Protection Device

Retro-Line Mini IP Ordering Chart

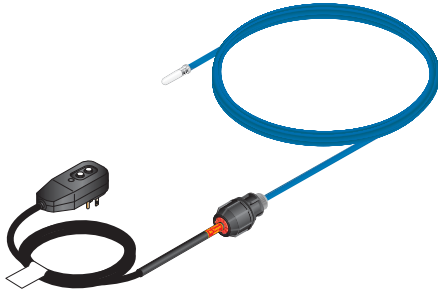


NOTE: The heating cable is measured and cut to the length of system ordered. Some of this length will remain within the interface fitting. Only available in Drinking Water Safe Fluoropolymer outer heating cable jacket. Minimum pipe inside diameter must be 0.485" or greater. Cold water use only.

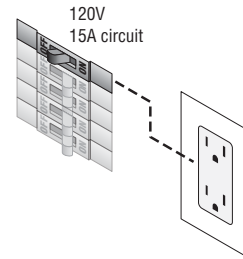
Retro-Line Mini IP Installation

1

- Carefully remove your Retro-Line Mini system. It comes complete with all parts as required pre-assembled, enclosed inside of the reel. Units less than 40 feet not supplied on reel.



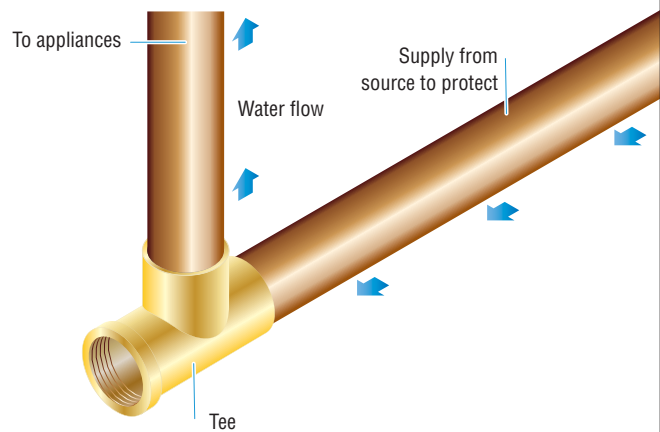
- It is recommended that a single circuit (15 amp) be installed by a qualified person for dedicated use of the Retro-Line Mini system. **Do not use extension cords.**



2

- Install tee fitting with 1/2 inch female thread (FIPT) to interface to supplied 1/2 inch Retro-Line Mini (MIPT) thread.
- Smooth and deburr all connections, tube and pipe.**
- It is recommended that the heating cable to be installed straight through the tee as shown (water flows through at 90 degrees) instead of installing heating cable through branch.

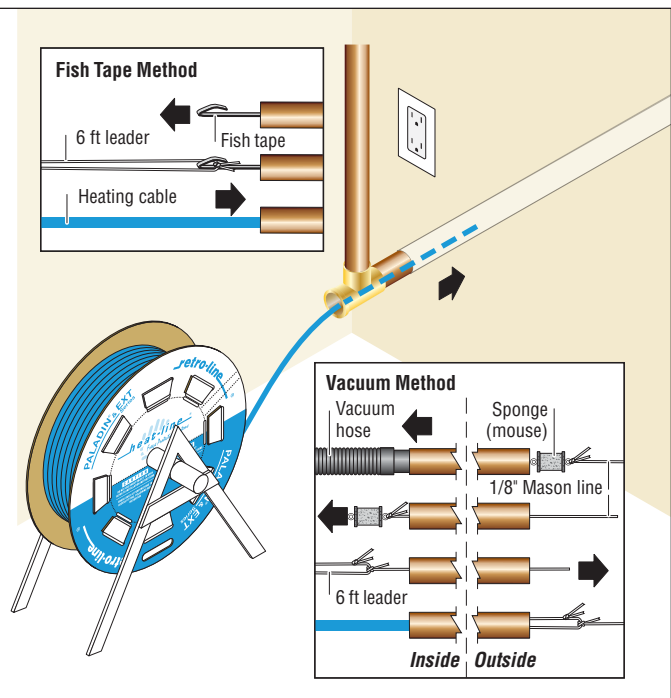
Note: Do not install the Retro-Line Mini fitting connection junction point in a manner that would render the system non-serviceable. Consult Heat-Line with questions regarding installation parameters with respect to serviceability.



3

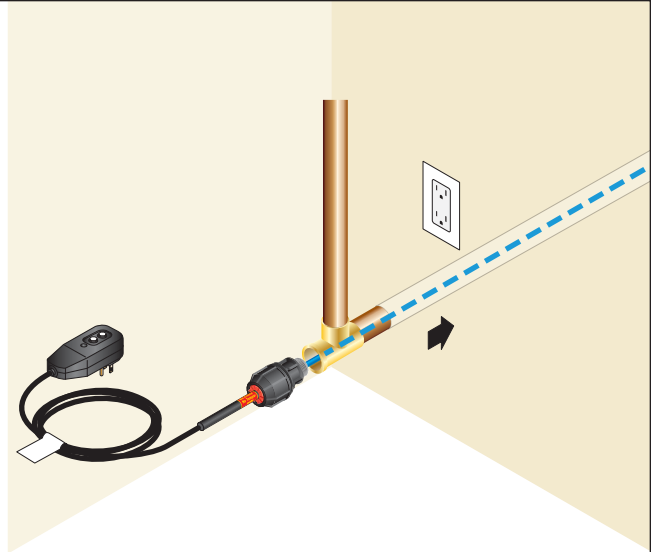
- Short Retro-Line Mini systems may be pushed in without the use of a fish tape or rope. Longer systems may require the use of a fish tape or other installation method. For long systems a vacuum can be used to draw a sponge "mouse" through the pipe with a 1/8 in mason line attached. These sponges can be hand made or purchased from Heat-Line.
- A 6 foot leader is provided with all Retro-Line Mini systems over 90 feet. This leader is your point of attachment for pulling in the Retro-Line Mini. If the leader is not required, remove it and simply push in the Retro-Line Mini into the pipe.
- A non-toxic (potable) lubricant can be used to make cable insertion or pushing of long lengths easier.

NOTE: The Retro-Line Mini leader is only provided as an aid to pulling. It is unable to withstand extremely hard pulls and will break if over stressed. Heat-Line will not be responsible should this occur.



4

- Slowly push/pull the Retro-Line Mini into the pipe off of the reel. Upon total heater insertion, break open the reel at perforations, or lift tabs to remove lid.
- **Do not use sharp instruments.** Finish insertion of the Retro-Line Mini until the Philmac fitting comes up tight. A non-toxic (potable) lubricant can be used to make cable insertion or pushing of long lengths easier.

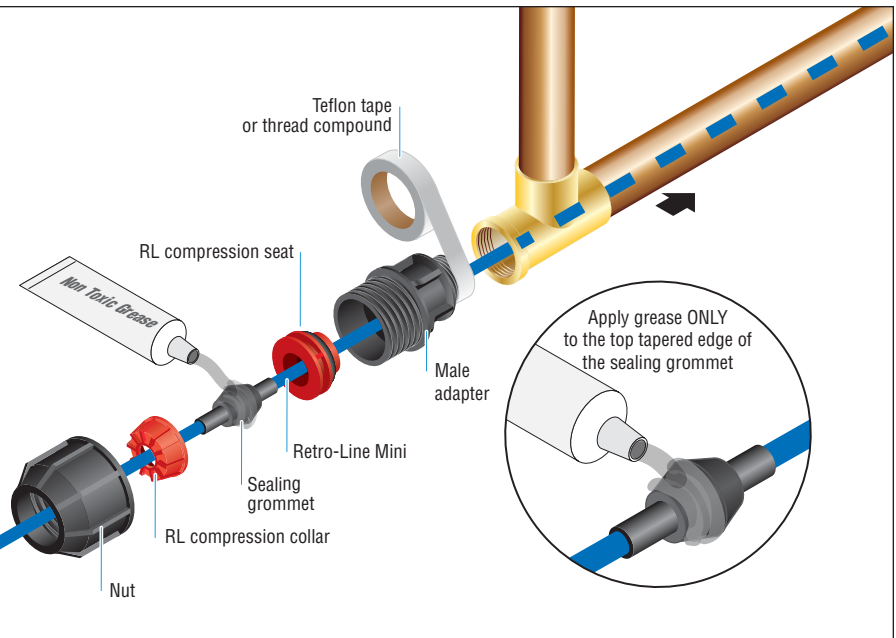


5

- Remove nut from male adapter body
- Install Teflon tape or thread compound on thread

CAUTION: Be sure there are no sharp edges - deburr all.

- Thread male adapter body into tee fitting
- Apply non-toxic lubricant or grease to top section of rubber sealing grommet.
- Slide remaining heater into pipe and tighten nut onto adapter.

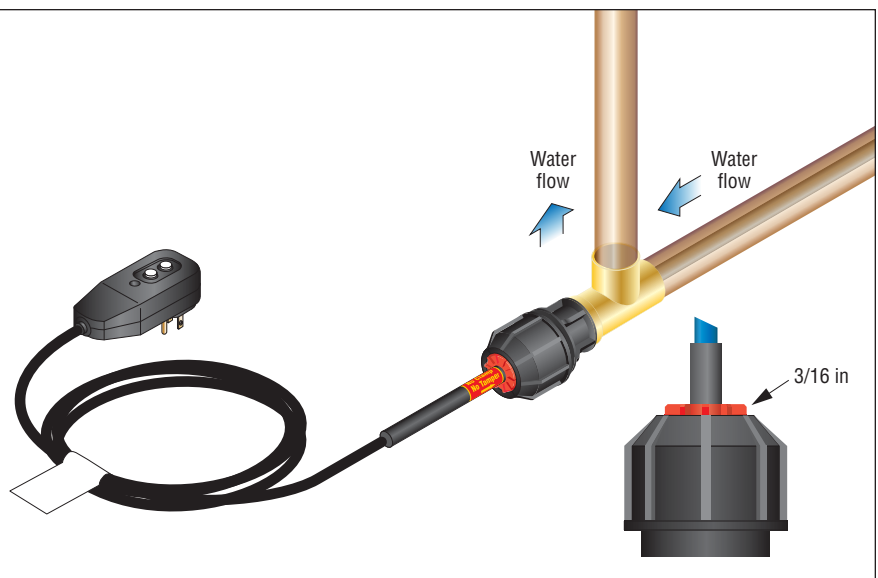


6

- Tighten nut until RL compression collar stands proud 3/16".

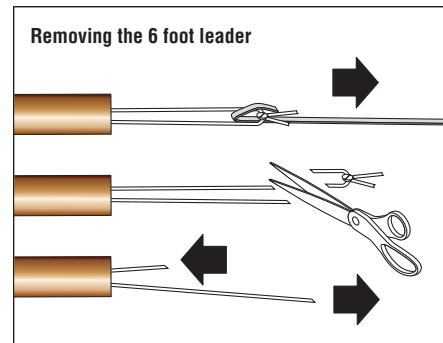
IMPORTANT: Ensure that the heating cable does not twist in the sealing grommet as the nut is tightened.

Note: Do not over tighten! Should be tightened by hand however a wrench can be used if assistance is required.



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- If used, remove the 6 ft leader. Cut off the knot and remove from pipe by pulling on the side that moves easiest.
- After all plumbing fittings have been completely installed, check the operation of the pressure system.



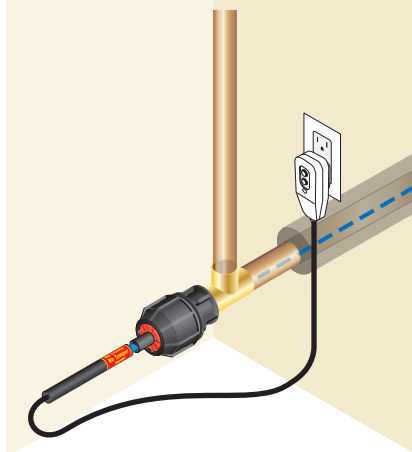
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- After all plumbing fittings have been completely installed, a licensed tradesperson should observe the installation and certify that the Philmac fitting has made a secure connection. Pressure testing the system prior to service is highly recommended to ensure a proper connection.

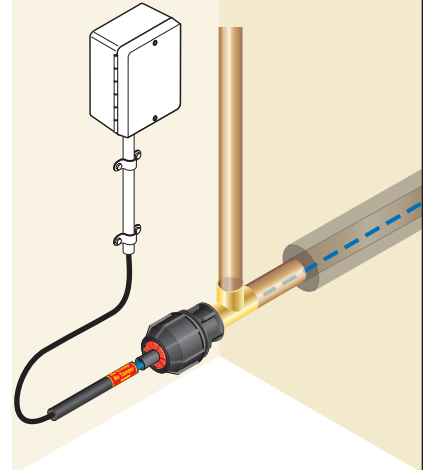
Refer to control devices and insulation installation on page 12.

- **It is now time to energize your Retro-Line Mini system. Carefully follow the Electrical System Connection instructions on page 10/11.**

Ground-faulted plug-in (GFC) model shown.



Cord set (CS) model shown. GFCI circuit protection required.



Electrical System Connection

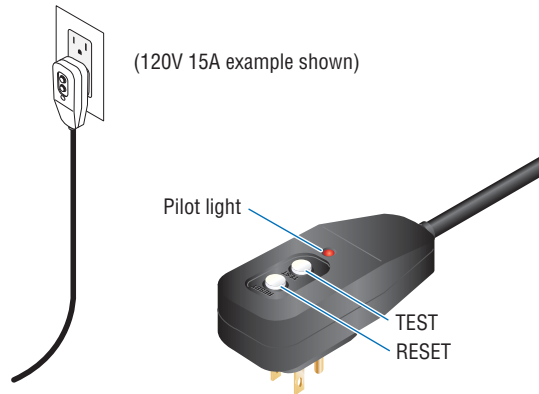
Electrical Connection for GFC (Ground Fault Plug-in) Models

- Unpack the Retro-Line Mini system plug from its protective package.
- Plug into your dedicated outlet. 120V 5-15R outlet for 120V systems.
- Push reset button on the cord set ground fault device until light comes ON. If light does not illuminate check power to outlet. Do not remove or tamper with the cord set. If used with a thermostat it may be necessary to bypass the thermostat control and plug directly into receptacle to perform test.
- Push test button and light will go OFF. This indicates that the electrical circuit is intact and fully protected.
- Push reset button again and light will come ON. This indicates that your Retro-Line Mini is working.
- Follow this test procedure before each season and monthly while in use.

Your Retro-Line Mini is now fully functional.

If at any time your Retro-Line Mini system fails to work call your local electrician or Heat-Line for assistance at 1-800-584-4944.

Unplug when not in use.



Note: GFCI model supplied may be different than the one shown.

Electrical Connection for CS (Cord-Set) Models into Junction Box

Note: The "CS" version is designed to be installed by a qualified electrician and must be inspected by the governing electrical authority following completion of installation.

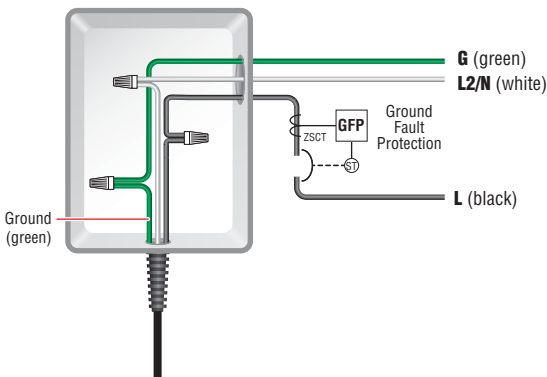
- Ensure the Retro-Line Mini system will be operated on a dedicated ground fault protected circuit with over-current protection appropriate for the circuit conductor size and heating cable length.
- Confirm power is disconnected at the power supply prior to proceeding.
- Remove approved junction box cover.
- Route the Retro-Line Mini cord-set wires into box with the supplied strain relief fitting.
- Connect appropriate wires together using approved wire nuts. Match wires white to white, black to black, and green to green. In the case of a metal junction box/enclosure, match green to ground screw and confirm screw is tight and secured afterward.

- Double check that the wires have been connected correctly and tight.
- Install junction box cover.
- Establish power to the circuit and test/reset the ground fault device for proper operation.
- Test the GFCI at the breaker before each season and monthly while in use.

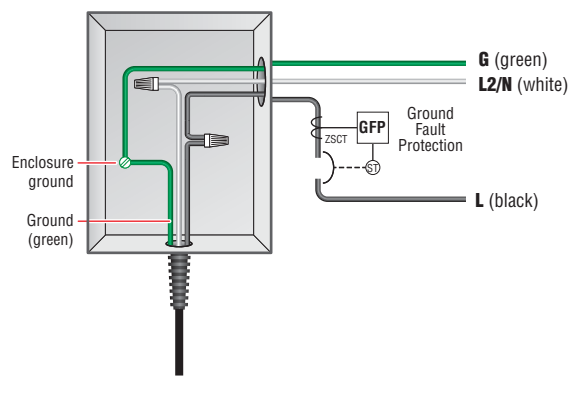
Your Retro-Line Mini system is now fully functional.

If at any time your Retro-Line Mini system fails to work call your local electrician or Heat-Line for assistance at 1-800-584-4944.

Non-Metal Junction Box



Metal Junction Box



Electrical Connection for CS models installed with the optional GFA-STAT (FPT-130)

A. Ensure the Retro-Line Mini system will be operated on a dedicated circuit with over-current protection appropriate for the circuit conductor size and heating cable length.

Note: GFA-STAT (FPT-130) includes ground fault protection.

B. Confirm power is disconnected at the power supply prior to proceeding.

C. Remove front cover of the GFA-STAT.

D. Remove black strain relief from the Retro-Line Mini power cord.

E. Route the Retro-Line Mini cord-set wires through strain relief fitting supplied with the GFA-STAT.

F. Follow electrical guidelines per the GFA-STAT (FPT-130) manual included with your GFA-STAT unit.

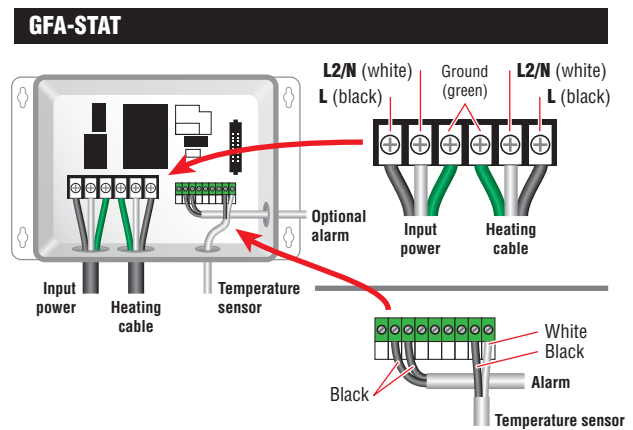
G. Double check that the wires have been connected correctly.

H. Establish power to the circuit and test/reset the ground fault device for proper operation.

I. Test the GFA-STAT GFCI before each season and monthly while in use.

Your Retro-Line Mini system is now fully functional.

If at any time your Retro-Line Mini system fails to work call your local electrician or Heat-Line for assistance at 1-800-584-4944.



Control Devices and Insulation Installation

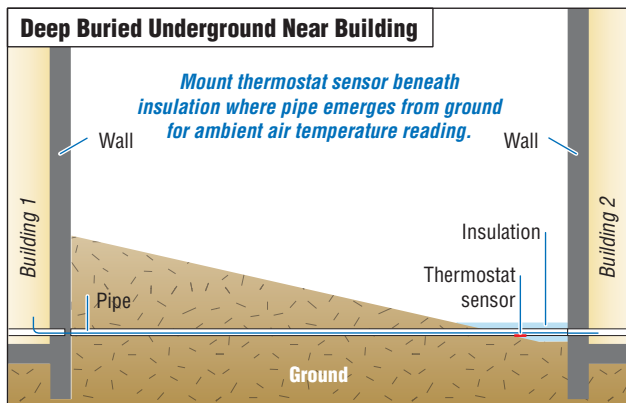
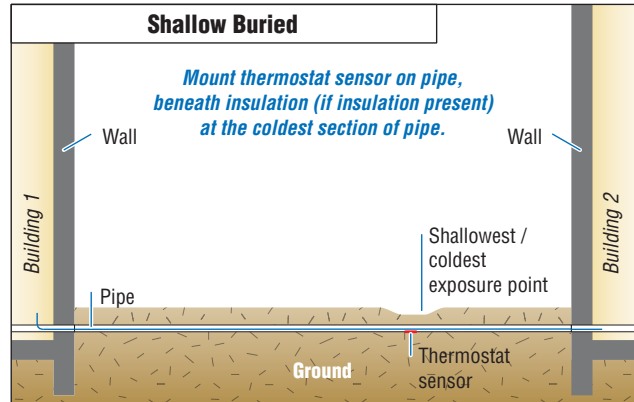
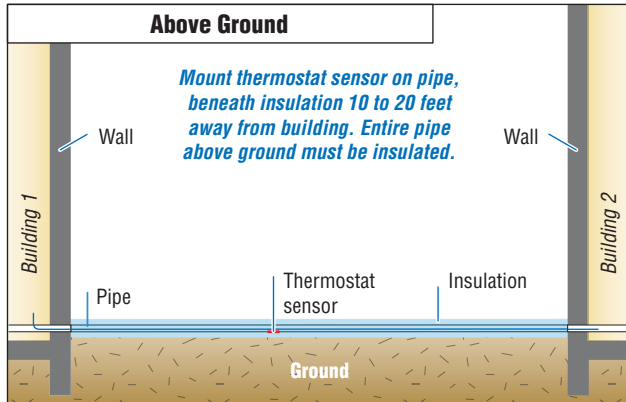
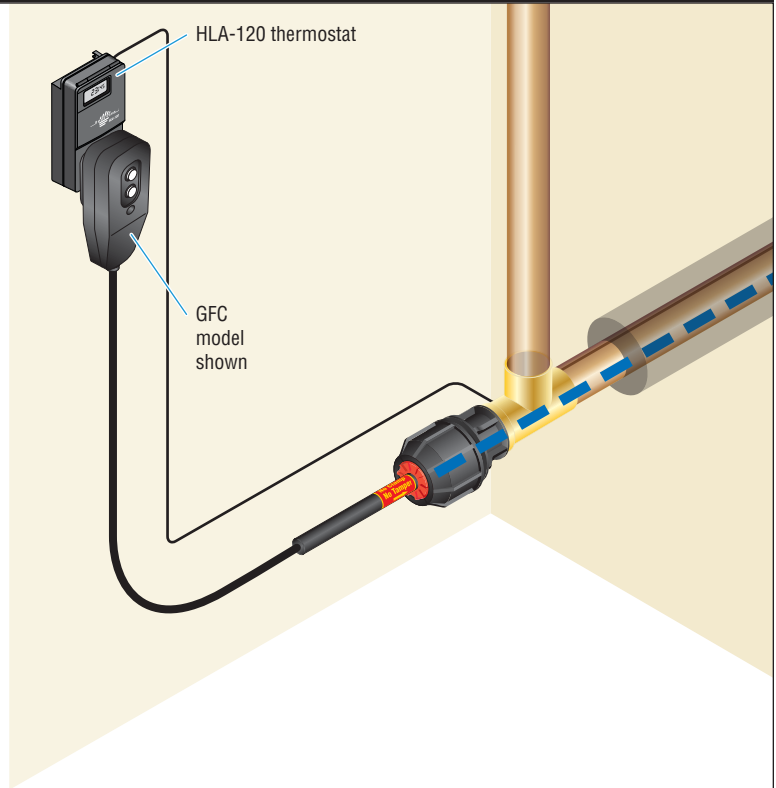
Control devices are not required to operate the heating cable system. They can be added for energy efficiency.

Thermostats are used to duty cycle the system in an on/off operation saving power consumption and maintain a certain pipe temperature. A sensor lead must be placed on the coldest section of pipe.

Timers are used to duty cycle the system in an on/off operation based on preset time intervals to save on power consumption.

Insulation is recommended for all new pipe installations, even where the pipe is to be buried.

For existing pipe applications, insulation is only required where the pipe is exposed to ambient outdoor temperatures, and/or where the pipe is above the ground. Insulation aids in heat retention making the heating cable more energy efficient and providing cold weather reliability.



Limited Warranty

During the time periods and subject to the conditions hereinafter set forth. Heat-Line will repair or replace to the original user any portion of your Retro-Line Mini product which proves defective in materials or workmanship of Heat-Line. Contact Heat-Line or your installer for warranty service.

At all times Heat-Line shall have and possess the sole right and option to determine whether to repair or replace defective equipment, parts or components. **Damage due to natural events or conditions beyond the control of Heat-Line are NOT COVERED BY THIS WARRANTY.**

STANDARD WARRANTY PERIOD: 60 months from date of purchase or 63 months from date of manufacture, which ever occurs first.

EXTENDED WARRANTY PERIOD: 120 months from date of purchase or 123 months from date of manufacture, which ever occurs first.

ACCESSORIES, COMPONENTS, ELECTRONICS: Not manufactured by Heat-Line, are warranted only to the extent of original manufacturer's warranty.

LABOUR, COSTS, ETC.: Heat-Line shall in **NO EVENT** be responsible or liable for the cost of field labour or other charges incurred by any customer in removing and/or reaffixing any Heat-Line product, part or component thereof.

THIS WARRANTY WILL NOT APPLY:

- (a) to defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with printed instructions provided,
- (b) to failures resulting from abuse, accident or negligence;
- (c) to normal maintenance services and
- (d) to parts not used in accordance with applicable local codes, ordinance and good trade practices;
- (e) if the unit is moved from its original installation location or
- (f) if the unit is used for purposes other than for what it was designed and manufactured,
- (g) to the integral ground fault device and related electronics.

PRODUCT IMPROVEMENTS: Heat-Line reserves the right to change or improve its products or any component thereof without being obligated to provide such a change or improvement for units sold and/or shipped prior to such change or improvement.

WARRANTY EXCLUSIONS: As to any Heat-Line product after the expiration of the time period of the warranty applicable thereto as set forth above. There will be no warranties including any implied warranties of merchantability or fitness for any particular purpose. No warranties or representations at any time made by any representative of Heat-Line, shall vary or expand the provisions hereof.

LIABILITY LIMITATION: In no event shall Heat-Line be liable or responsible for consequential, incidental or special damages resulting from or related in any manner to any Heat-Line product or parts thereof. In the absence of suitable proof of the purchase date, the effective date of this warranty will be based upon the date of manufacture plus 90 days.

Heat-Line Freeze Protection Systems

1095 Green Lake Road
Algonquin Highlands, ON Canada
KOM 1S0
Tel: 1-705-754-4545
1-800-584-4944
Fax: 1-705-754-4567
info@heatline.com
www.heatline.com

Heat-Line, Retro-Line, Retro-FM, Retro-DWS and CARAPACE are registered trademarks of Heat-Line Corporation. Philmac is a registered trademark of Philmac Pty Ltd.

Important: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. Heat-Line a Division of Christopher MacLean Ltd. makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Heat-Line's only obligations are those in the Heat-Line Standard Terms and Conditions of Sale for this product, and in no case will Heat-Line be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, Heat-Line reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.



Retro-Line® Mini Warranty Form

CONGRATULATIONS!

You have just purchased the most advanced internal freeze-protection system available on the market, backed by the finest warranty offered in the industry. Your Retro-Line Mini system comes with a standard 5 year limited warranty with an optional 10 year limited warranty available.

~ The warranty applies only to the original purchaser of the product and is not transferable at any time for any reason. The warranty form must be filled out and returned to Heat-Line within 6 months of invoice date or unit manufactured date plus 9 months to be eligible for the 10 year extended warranty. ~

OWNER MAILING ADDRESS

Name _____
 Address _____

 City _____
 Prov/State _____ Postal/ZIP _____
 Country Canada USA Other: _____
 Home Phone _____
 Email _____

INSTALLATION ADDRESS (if different than mailing)

Name _____
 Address _____

 City _____
 Prov/State _____ Postal/ZIP _____
 Country _____
 Work/Cell _____

PRODUCT INFORMATION

Product Cat.# _____
 Serial # _____
 Length _____

Installation Type: Lake/River
 Well
 Municipal
 Other: _____

WARRANTY INFORMATION

5 Year Limited Warranty: **INCLUDED!**

10 Year Limited Warranty: \$1.75 / foot (\$75.00 minimum)

PAYMENT DETAILS FOR 10 YEAR LIMITED WARRANTY

System Length* _____	System Length* _____	= Subtotal _____
Units 1 to 550 feet = \$1.75 per foot OR \$75.00 minimum	x \$ 1.75/ft	
* For custom lengths involving inches, round up to the nearest foot		

Taxes and Currency

If Canadian Address: Subtotal: _____
 Provincial Tax %: _____ Tax Due: _____
 Total in CDN Currency:

If U.S. Address or Other Country:
 No Taxes Apply
 Total in US Currency:

PAYMENT METHOD

Cheque

Enclose and make out to Heat-Line for full amount

Credit Card:

Mastercard or Visa

Name on Card: _____
 Card Number: _____
 Expiration Date: ____ ____

LIMITED WARRANTY

During the time periods and subject to the conditions hereinafter set forth. Heat-Line will repair or replace to the original user any portion of your Retro-Line Mini product which proves defective in materials or workmanship of Heat-Line. Contact Heat-Line or your installer for warranty service.

At all times Heat-Line shall have and possess the sole right and option to determine whether to repair or replace defective equipment, parts or components. **Damage due to natural events or conditions beyond the control of Heat-Line are NOT COVERED BY THIS WARRANTY.**

STANDARD WARRANTY PERIOD: 60 months from date of purchase or 63 months from date of manufacture, whichever ever occurs first.

EXTENDED WARRANTY PERIOD: 120 months from date of purchase or 123 months from date of manufacture, whichever ever occurs first.

ACCESSORIES, COMPONENTS, ELECTRONICS: Not manufactured by Heat-Line, are warranted only to the extent of original manufacturer's warranty.

LABOUR, COSTS, ETC.: Heat-Line shall in **NO EVENT** be responsible or liable for the cost of field labour or other charges incurred by any customer in removing and/or reaffixing any Heat-Line product, part or component thereof.

THIS WARRANTY WILL NOT APPLY:

(a) to defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with printed instructions provided,

- (b) to failures resulting from abuse, accident or negligence;
- (c) to normal maintenance services and
- (d) to parts not used in accordance with applicable local codes, ordinance and good trade practices;
- (e) if the unit is moved from its original installation location or
- (f) if the unit is used for purposes other than for what it was designed and manufactured,
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WARRANTY EXCLUSIONS: As to any Heat-Line product after the expiration of the time period of the warranty applicable thereto as set forth above. There will be no warranties including any implied warranties of merchantability or fitness for any particular purpose. No warranties or representations at any time made by any representative of Heat-Line, shall vary or expand the provisions hereof.

LIABILITY LIMITATION: In no event shall Heat-Line be liable or responsible for consequential, incidental or special damages resulting from or related in any manner to any Heat-Line product or parts thereof. In the absence of suitable proof of the purchase date, the effective date of this warranty will be based upon the date of manufacture plus 90 days.

PROOF OF PURCHASE

If a proof of purchase copy is submitted with this warranty application form, the warranty period will be effective as of invoice date. In the absence of suitable proof of purchase, the effective date of this warranty will be based upon the date of unit manufacture plus 3 months.

Proof of purchase (invoice) attached: Yes No

By signing below you acknowledge you have read and understand the full limited warranty document.

Signed: _____

Dated: _____

The warranty form must be filled out and returned to Heat-Line within 6 months of invoice date or unit manufactured date plus 9 months to be eligible for 10 year extended warranty.

Heat-Line and Retro-Line are registered trademarks of Heat-Line Corporation.

Heat-Line Freeze Protection Systems

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