

EVERHOT INC.

Everhot PEX Tubing for Potable Water Applications & Radiant Floor Heating

Installation Manual

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The logo for PEXHEAT.COM features the text "PEXHEAT.COM" in a stylized, outlined font. Above the text is a blue roof-like shape with a white outline, suggesting a house or a protective covering.

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Everhot PEX Installation Manual

Overview

This manual covers basic recommendations for plumbing professionals on installation of Everhot PEX Tubing in radiant floor heating & potable water distribution systems.

Local code requirements should always be followed for quality purposes. For more information on code requirements contact your local plumbing official.

Everhot Inc. is not liable for any misrepresentations in this manual that may result in improper installation of Everhot PEX Tubing and plumbing system malfunction.

Please contact Everhot Inc. with requests on additional information and other general inquiries prior to installation, or visit us online at www.everhotinc.com

Products

Everhot PEX Tubing with Oxygen Barrier (for Radiant Floor Heating)

- Approved for use in radiant floor heating systems
- Approved for use in plumbing systems that contain ferrous metal components (such as cast iron parts)
- Not for use with potable water applications

Everhot PEX Tubing without Oxygen Barrier (for Potable Water & Radiant Heating Applications)

- Approved for use with potable water applications
- Approved for use in radiant heating systems that do not contain ferrous metal parts
(Can be used in such systems only if such ferrous parts are properly isolated. Refer to local code requirements for details)
- Approved for use with chlorinated water

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Applications

Most common applications for Everhot PEX Tubing include but are not limited to:

- Radiant Floor Heating & Radiant Heating Systems
- Snow & ice melting applications
- Potable & non-potable water distribution

With various types of Everhot PEX Tubing available, refer to "Products" section of this manual, to select a proper one for your plumbing job.

Standards

- ASTM F876 Standard Specification for Crosslinked Polyethylene (PEX) Tubing
- ASTM F877 Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hot- and Cold-Water Distribution Systems
- ASTM F2023 Standard Test Method for Evaluating the Oxidative Resistance of Crosslinked Polyethylene (PEX) Tubing and Systems to Hot Chlorinated Water
- CSA B137.5 – Cross Linked Polyethylene (PEX) Tubing Systems for Pressure Applications

Listings & Approvals

- Uniform Plumbing Code (UPC)
- International Association of Plumbing and Mechanical Officials (IAPMO)
- NSF/ANSI Std. 14: Plastics Piping Components and Related Materials. Radiant Heating Applications.
- NSF/ANSI Std. 61: Drinking Water System Components. Health Effects.
- NSF Protocol P171: Chlorine Resistance of Plastic Piping Materials.
- Intertek (Warnock Hersey)

Pressure Ratings

- 200F @ 79psi
- 180F @ 100psi
- 73F @ 145psi

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Installation

Before You Start

Everhot Inc. strongly recommends to inspect all materials, tools and components for damage and defects prior to installation.

Choosing the Right Tools

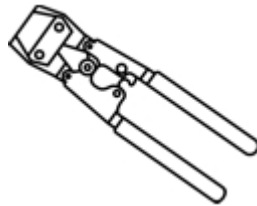
Below is a list of tools that can be used for Everhot PEX Tubing installation purposes.

- Regular Crimp Tool



Proper size tool should be used. Proper size crimp ring should be used. Crimp tool must meet ASTM F1807 (Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing) and should be marked accordingly.

- Stainless Steel Clamp Tool (Ratchet type)



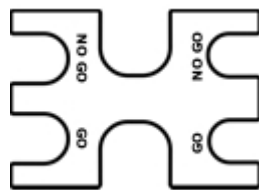
One tool fits all clamp sizes. Proper size clamp should be used.

- Pex Cutting Tool



Only cutters with sharp blades should be used to insure a smooth and accurate cuts.

- Go / No-Go Gauge



Recommended for use with regular copper crimp rings (ASTM F1807) to ensure proper crimp connections. Should be checked periodically or changed within reasonable time frames due to normal wear.

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Choosing the Right Fittings

All fittings intended for use with Everhot PEX Tubing must meet the ASTM F1807.

If used together with Everhot PEX Tubing for potable water distribution purposes, such fittings must bear a third-party certification for use with potable water applications and shall be marked accordingly.

For use with other types of fittings, consult your local plumbing official.

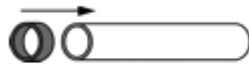
Making Crimp Connections

1. Cut the tubing



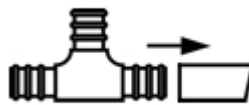
Use pex pipe cutting tool to make a smooth, square cut.

2. Slide the crimp ring onto Everhot PEX Tubing



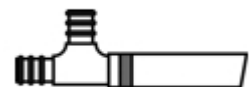
Select a proper size of a crimp ring. Proper crimp ring will slide easily onto the pex tubing, but will allow only minimum gap between itself and the pipe.

3. Insert the fitting into the tubing



Make sure the fitting is pushed in completely, its barbs are fully covered with tubing and tubing end is set against the fitting's shoulder.

4. Slide the crimp ring over the inserted fitting



Place crimp ring anywhere in between 1/8" and 1/4" from the shoulder of the fitting.

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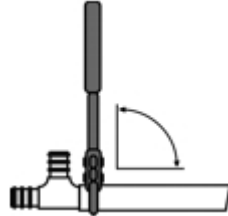
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Making Crimp Connections

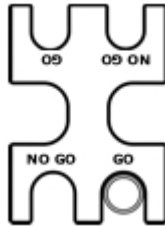
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5. Crimp



Select a proper size crimp tool.
Open crimp tool jaws.
Position crimp tool jaws over the crimp ring 90° to the tubing.
Close the crimp tool jaws.

6. Check the crimp



Use Go / No-Go Gauge to check the crimp.
If crimp connection made improperly, cut the tubing and start over.

Checking for Leaks

Assembled PEX tubing system should be pressure tested for presence of leaks prior to exploitation.

Runing Tubing

Everhot PEX Tubing should be installed in continious lengths with as least connections as possible.
Due to flexibility, less fittings are required for installation, thus reducing time and cost required to do the job.

Supports

Everhot PEX Tubing should be supported every 32" of continious length when run horizontally.
Only supports designed for plastic tubing should be used. Do not use rigid materials to secure the tubing.
When exiting a concrete slab, a 90° bend support or non-metallic sleeves should be used.
When pouring concrete, secure tubing to rebars or wire mesh with wire ties, at intervals necessary to keep the tubing from floating.

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Insulation

Insulation is required if:

- **Tubing is exposed to UV light**
- **Tubing is near a heat source (minimum 12" vertical and 6" horizontal clearance is required)**
- **Tubing is installed in the attic**

Insulation materials must meet minimum requirements to withstand the conditions above.

Clearance

Always allow adequate clearance for tubing to expand and contract due to thermal changes.

Never pull tubing too tight.

Necessary slack can be created by making an offset or a loop.

Additional Information

For more information, please refer to General Technical Information manual or contact Everhot Inc. at any time.

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