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CB SUPPLIES

Getting Heated. Hydronic Radiant Systems and the Evolution of Tubing



HYDRONIC HISTORY

- Long used across Europe (several decades)
- Recently new to North America
- Unlike traditional forced-air systems, which rely on blowing heated air through ducts, hydronic systems use a water-based solution to transfer heat. Method offers numerous benefits, including consistent warmth, reduced energy consumption, and improved indoor air quality.
- Use of PEX tubing (cross-linked polyethylene) long history vs NEW (an evolution to PEX tubing) in PE-RT Tubing (polyethylene of raised temperature resistance)

APPLICATION

- One of the primary benefits of PE-RT tubing is its enhanced temperature resistance. PE-RT can withstand higher temperatures than standard PEX, making it suitable for use in high-temperature applications such as hydronic radiant floor heating.
- Ensures longevity and reliability of the hydronic system, reducing the risk of leaks or failures over time

- PE-RT tubing = superior resistance to chemical degradation, ensuring compatibility with various water conditions and additives commonly used in hydronic heating systems. This resistance minimizes the risk of corrosion or scaling within the tubing.
- Above benefits = efficiency and performance of the heating system = increased lifespan.
- PE-RT piping has several advantages over PEX piping, including superior flexibility and durability, excellent chemical resistance, environmental friendliness, and easier installation. For these reasons, it has become a popular choice for hot water applications in both residential and commercial settings.



STRENGTH & DURABILITY

Excellent hydrostatic strength at high temperatures and very high burst pressures.

100% RECYCLABLE

VIPERT is recyclable and requires less energy to be produced than PEX.

IMPROVED FLEXIBILITY

With relaxed memory you'll experience less spring back than PEX.



www.cbsupplies.ca

See us at CMPX Booth #507



The Perfect BALANCE

The ideal manifold and tubing for the distribution of heating fluid in radiant systems

Thanks to our ideal set-up for installers using our unique flow meters on each manifold loop, IVAR stainless-steel manifolds guarantee perfect system balancing, optimizing energy use, while providing premium thermal comfort.

Every manifold set is supplied with all components included in the box, ensuring a smooth commissioning process for radiant systems installers.

Pair the IVAR Manifolds with our premium VIPERT™ (PE-RT) Oxygen Barrier Tubing, manufactured specifically for radiant systems, and you have a winning solution every time.

Take advantage of our in-house hydronic expertise, including LoopCAD design and layouts customized for each of your residential and commercial projects.



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