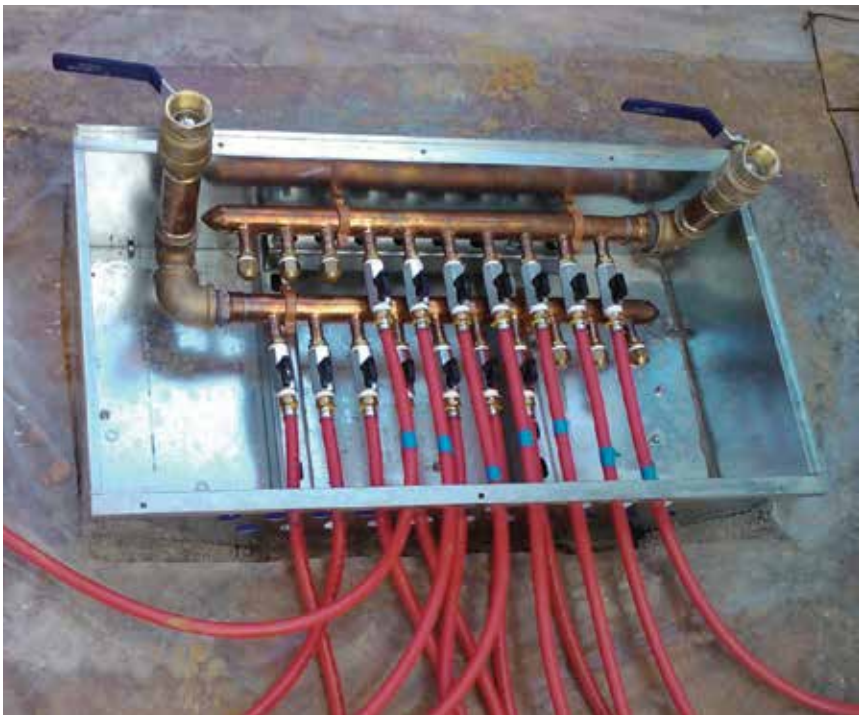
Delta T Solutions
Engineering, Integrating, Innovating Systems

DELTA-TUBE™ PEX
Poly Tube Warm Floor Heat

Delta T Solutions' cross-linked polyethylene (PEX) is an ultra-durable and cost-effective tubing material for in-concrete floor radiant heating systems

Heating a greenhouse radiantly from the floor

Heating a greenhouse radiantly from the floor offers countless benefits for plants and growers. Heating starts at the soil level, promoting accelerated root growth and improved germination, as well as energy savings of 20% to 30% over conventional forced air heating units. Delta T Solutions' in-floor tubing is made from durable PEX material.



Known for its ability to stand up to the harshest greenhouse conditions,

Known for its ability to stand up to the harshest greenhouse conditions, the DELTA-TUBE™ PEX tube material is made from cross-linked high-density polyethylene (HDPE) polymer, which is melted and continuously extruded into tubing. PEX pipes provide more elaborate polyethylene performance while maintaining the advantageous properties of thermoplastics.

Features and Advantages of Delta T Solutions / PEX Tubing

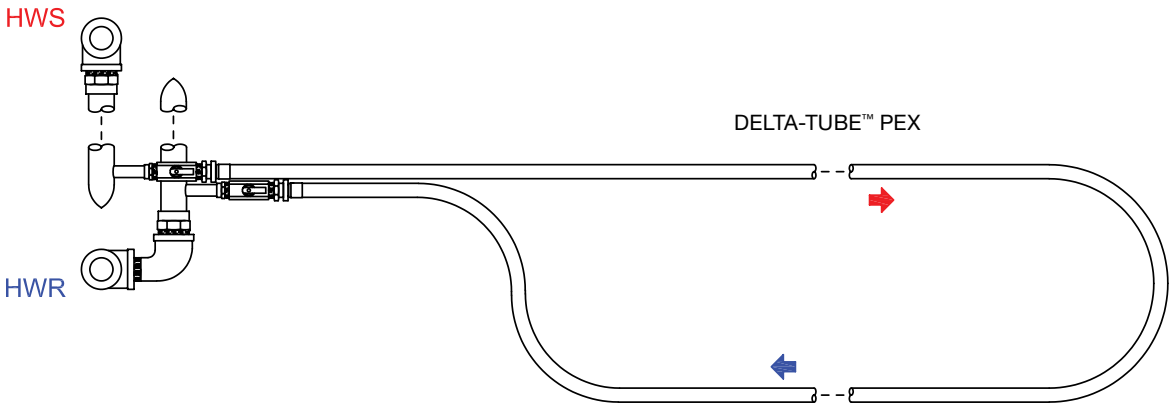
- Excellent corrosion resistance, flexibility and toughness; resists scale build-up and does not pit or develop pinholes when exposed to acidic water
- Resistant to freeze-breakage
- 5/8-inch standard tubing size, with optional ½-inch and ¾-inch sizes; tubing lengths are long enough to eliminate joints within the concrete
- Available as O2 (Oxygen) barrier tube, if necessary
- Less friction loss reduces pumping requirements
- Meets municipal building codes

In-Ground Heating Solutions

Delta T Solutions' engineered heating systems can meet any grower's needs. Packages include all the necessary heating system components (heat source, controls and radiation), as well as performance-engineered drawings showing pipe layouts and electrical diagrams. The PEX tubing system includes manifolds for distribution, coiled pipes for easy handling and tools for installation. Delta T also provides installation supervision or the installation itself, if required.

DELTA-TUBE™ HD

1¼" Copper Manifold with Ball Valves and Fittings Installed



Tubing Characteristics

- Made from cross-linked polyethylene
- Primarily used in building pipework systems, domestic water pipes and hydronic radiant heating systems
- Cross-linking takes place during or after the tubing is extruded for improved high-temperature and low-temperature properties
- Scratch- and fracture-resistant

Manifold Types

- 1¼-inch copper manifolds with ball valves and barbed adapters on each loop (supply and return)
- Manifold boxes to protect tubing and manifolds (includes: aluminum manifold box cover, manifold support rack, connecting piping and isolation ball valves)
- Steel manifolds with welded adapters, ball valves and barbed adapters on each loop (supply and return); welded steel pipe is included in the piping and fitting package

Cross Link Polyethylene (PEX) Tube

- ½-inch to 0.475-inch ID PEX tubing shall be spaced on 12-inch centers and tied to the 6x6 wire mesh or rebar using wire ties provided
- ⅝-inch to 0.574-inch ID PEX tubing shall be spaced on 12-inch centers and tied to the 6x6 wire mesh or rebar using wire ties provided
- ¾-inch to 0.677-inch ID PEX tubing shall be spaced on 12-inch centers and tied to the 6x6 wire mesh or rebar using wire ties provided
- Stainless steel crimp ring holds tubing to manifolds
- Wire ties and ratchet attach tubing to wire mesh
- Designed with no mechanical joints in concrete slab
- The heating system shall be completely designed, specifying all equipment supplied by Delta T Solutions and by owner. Detailed drawings shall be issued showing all equipment installation, pipe sizes and control wiring

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