

Delta T Solutions

DELTA-TUBE™ HD

HIGH DENSITY POLY TUBE WARM FLOOR HEAT

The DELTA-TUBE™ HD heating system heats the greenhouse from the floor level by running hot water through a grid of high quality polyethylene tubing that is installed into the concrete floor.

Using the concrete floor as a radiant surface, heat radiates from the floor into the house and directly to the plants instead of heating from the ceiling down. DELTA-TUBE™ HD tubing is resistant to most chemicals and does not rust, rot, pit or corrode through chemical reaction with the concrete.

The DELTA-TUBE™ HD manifolds are all copper with a ball valve on both the supply and return of each tube run. Placed on six or twelve inch centers, the tubing is installed directly into the concrete slab.

This system is ideal for large ranges and excels in a retail greenhouse, eliminating unsightly and noisy unit heaters. Delta T Solutions provide a packaged heating system that supplies all the components. Each packaged system is provided with design drawings showing pipe sizes, locations and electrical diagrams showing control wiring.



Specifications:

The hydronic heating system is the Delta Tube™ High density polyethylene system using 90°F to 135°F water temperature, and will consist of the following components:

- 1.25" Copper manifolds with ball valves and barbed adapters on each loop (supply and return).
- Stainless steel clamps to hold tubing to manifolds.
- Manifold boxes to protect tubing and manifolds. (cover supplied by installer).
- 0.622" ID High density polyethylene tubing shall be spaced on 12 inch centers and tied to the 6 x 6 wire mesh or rebar using wire ties provided.
- Wire ties and ratchet to 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. Detail drawings shall be issued showing all equipment installation, pipe sizes and control wiring.



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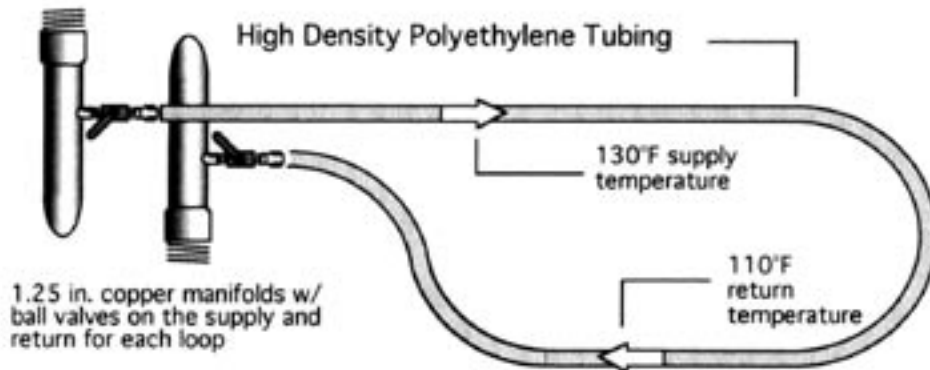
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Some of the many advantages of the DELTA-TUBE™ HD systems are:

- Direct contact with warm floor to root zone for maximum soil and plant temperature control.
- Even temperatures are maintained throughout the system resulting in even crop growth.
- Compatible with any type of heat source.
- Different temperature zones designed for flexible growing.
- Ideal for retail area - quiet, no unsightly unit heaters or infrared heaters hanging from structure.
- Compact manifold design eliminates the need to bring tubing out of concrete floor and to piping hanging on walls.
- High quality tubing will last as long as the concrete.

Delta Tube™ HD



Delta Tube™ HD Ratings

Tube Spacing	BTU/HR/SQ FT*(air temperature)								Volume
	50	55	60	65	70	75	80	85	
12"	80	70	60	50	40	30	20	10	1.66 gal

Maximum water temperature 140°F
Maximum water pressure 30PSI

*BASED ON 85°F SLAB TEMPERATURE AND 135°F water temperature.



Delta T Solutions
COLOR UP WITH HEAT

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