



December, 1996

INSTALLATION INSTRUCTIONS air distribution tube systems with blower unit heaters

Tube Installation

The polyethylene tube providing air distribution throughout the greenhouse is simply and directly connected to the heater outlet transition with a gasket and a clamp as illustrated in Figure 1. The clamp and gasket are shipped attached to the transition. To install:

1. Remove clamp.
2. Thread a tube end through the clamp about 2" to 4".
3. Orient the tube so that the 3" distribution holes are in the bottom quadrants to direct the tempered air stream to both sides of the house.
4. Fit tube end and clamp over the gasketed outlet transition and secure clamp with a screwdriver.
5. Unroll tube to length desired and tie up end opposite heater.
6. Standard polytubes are supplied in 150' lengths (optional 100 ft. and 200 ft. lengths available) with 100, 3" diameter prepunched holes, one hole per side for each 3' length. Where less than 150' is required, the tube must either be tied off or cut off and additional holes added for tempered air. A minimum number of 100, 3" diameter holes are required for a 24" diameter polytube.

Minimum recommended length is 80'. Consult factory for applications between 50' and 80'. For houses less and 50', this unit is too large.

For applications with other than 3" diameter holes and within the range of 2-1/2" to 3-1/4" diameter, the total minimum hole area must be 710 sq. inches. For applications with hole diameters outside the range described above, contact the factory.

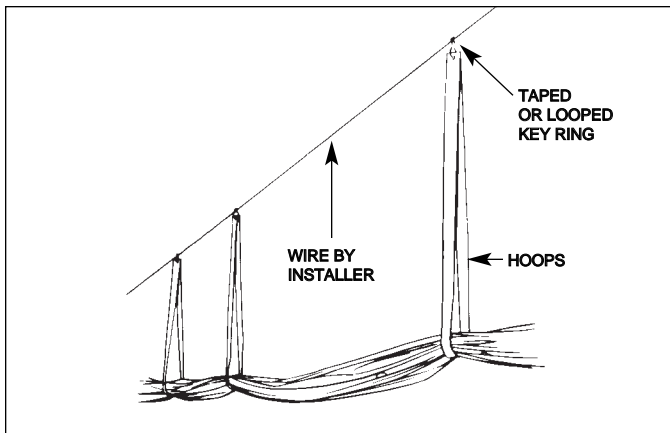
Tube Suspension

For optimum air distribution the tube should be suspended about 7' to 9' above the floor with the hoops and key rings supplied. The tube must be hung straight without bends or twists. The hoops supplied are special straps of cross-laminated plastic for durability that include eyelets at each end for clipping into the key ring. The key ring, with strap and tube may be

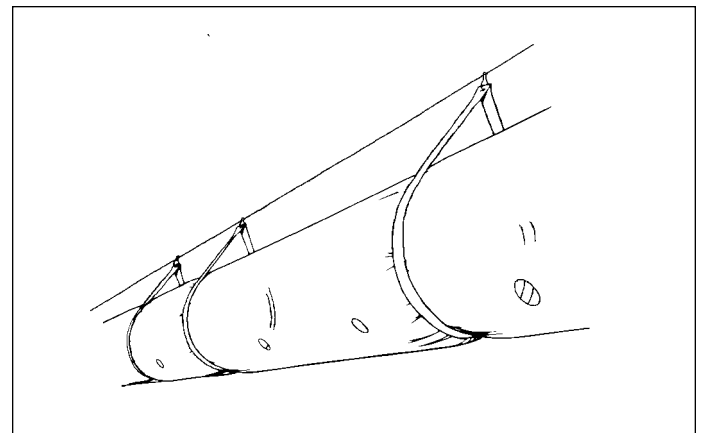
clipped onto either a long lead wire or an eyebolt in the truss construction of the greenhouse. Because of the variety of greenhouse constructions, no further provisions for suspension are provided other than the hoops and key rings.

Recommended tube suspension with hoops is approximately 8' apart, which will be adequate for polytube weight (12 lbs. per 100') and sufficient to dampen-out snapping action when the tube is initially inflated. For wire suspension make sure the key rings are properly anchored, i.e., either tied, taped, or looped into the wire to prevent shifting.

Figure 1
Polytube installed on outlet transition



Hoops and key rings suspending deflated polytube



Inflated polytube during heating/ventilating cycle