

# Vegetable Greenhouse Heating Systems

*Delta T Solutions offers systems customized for controlled environment agriculture.*

▶ **If you're in the market** for a complete vegetable production system to improve your crops' health, provide more consistent growth and heat your greenhouses efficiently, look no further. Commercial vegetable growers can rely on Delta T Solutions to provide complete engineered Vegetable Heating Systems, including installation and set-up for a variety of growing applications. Whether your greenhouse operation specializes in vegetable starts for field-grown produce or greenhouse vegetable production, our hydronic heating systems can accommodate your needs.

▶ **Minimize Costs, Maximize Efficiency** Hydronic heating is the use of water as a heat transfer medium in heating systems, using a boiler to heat water and a pump to circulate the hot water in rubber tubes that are either buried underground for field growing, embedded in concrete for radiant floor heating, or installed in greenhouse bench systems. Separated radiant heat zones are controlled by one thermostat and served by a manifold, which distributes the flow of hot water to the individual circuits of tubing within each zone.



## ▶▶ VEGETABLE GREENHOUSE HEATING SYSTEMS



### **Customized Solutions For Vegetable Growers**

Vegetable production ranges will benefit from tail pipe heating systems that provide peppers, tomatoes and other produce transplants with the most economical growing solutions. Radiant floor heating systems, installed in concrete slabs or beneath soil surfaces, warm crops from the bottom, ideal for uniformly producing high-quality, finished vegetables.

At the bench level, vegetable plug producers benefit from accelerated rooting and plant growth with our high-efficiency hot water bottom heat systems. Heating from below controls the soil temperature to provide a healthier rooting environment for plugs; resulting in improved plant quality, less disease and lower heating costs.

### **Flexible Boiler Options**

Maximum soil and plant temperature control combine with the ability to create different temperature zones for growing flexibility. In addition, hydronic heat allows flexibility in boiler fuel choices, including the ability to supplement with renewable resources like solar and geothermal heaters.

### **Hot Water Boilers that complement hydronic heating systems include:**

- Low Mass High Efficiency
- Atmospheric Fan Assisted or Condensing
- High Mass Hot Water Boiler
- Biomass
- Oil
- Natural/Propane Gas



Contact a Delta T Solutions representative to learn more about establishing a customized Vegetable Greenhouse Heating system.

