

# Greenhouse Heating Systems

*Delta T Solutions engineers, installs and services complete hydronic heating systems for commercial, institutional and residential greenhouses.*

## ► **Grow Healthy Plants More Sustainably**

Our hydronic heating systems minimize costs while maximizing heating efficiency. Whether you're growing crops in a field or under greenhouse cover, rooting and plant growth is accelerated by controlling the soil temperature. Heating plants at their base is a sustainable heating solution that results in constant temperatures, better plant quality, less disease and more economical heating costs.

## ► **Trusted Service, Proven Results**

Nobody knows the greenhouse environment better than Delta T Solutions, with our years of dedicated HVAC experience. We design, install and service a wide array of packaged systems that can save you time, money and mistakes. We also work closely with our customers to deliver the flexibility you need.

## ► **Solutions For Every Growing System**

- Hot water irrigation
- Heat exchangers
- EPDM rubber tube bench-top heating
- EPDM rubber tube in-ground heating
- PEX tube concrete floor heating
- Twin-fin aluminum tube heating
- Multi-fin aluminum tube heating
- Shield gas-fired heaters
- Hot water boilers



## Hot Water Heating Systems

Delta T hot water heating systems use the physics of heat to efficiently grow plants. Placing heat provides a more constant temperature, resulting in better plant quality, reduced heating costs and more sustainable energy use.

### Delta Tube™ SD

This system provides the best environment for young plants and general growing. Healthy, uniform plants and at least 20% fuel savings make this system the grower's choice. It uses Delta T quality synthetic tubing that will not break down under ultraviolet rays.



### Delta Tube™ LD

Large diameter EPDM rubber tube in-ground heating system is ideal for larger ranges, with savings of more than 20% over conventional forced air heating. It uses Delta T high quality synthetic tubing that will not break down under ultraviolet rays.



### Delta Tube™ PEX

The Delta Tube PEX and PEX with O2 barrier are durable, cross-linked polyethylene materials used for radiant concrete floor heating. During pour, tubing is installed in the concrete, which acts as a radiant surface to heat the area. The O2 barrier material is available to reduce oxygen infiltration to less than 1 percent.



### Delta-Fin™ TF 1 & 2

Heating the greenhouse from below the bench, this system allows for maximum temperature control and accelerated plant growth. Proven effective by many of the largest plug growers in the country, the reduced BTUs per foot and added material result in even heat being transmitted to plants. Delta-Fin TF 1 & 2 offers low water volume, high efficiency, aluminum construction, with no rusting and longer product life.



### Delta-Fin™ Multi Fin

The grower's choice for uniform convection heating, it is constructed of aluminum to dissipate heat quickly, resulting in energy savings. The external surface of 100 linear feet of 2-inch Delta-Fin is approximately the same as 844 feet of 2-inch pipe to produce the same amount of heat. Its high BTU output means you need fewer units. Unique fittings make it easy to install and its simple design offers easy maintenance and parts replacement. Available to 2" and 1-1/4" with stock length of 12".



### GF Shield Heaters

With their 5-year warranty, Shield gas-fired heaters have 2 1/2 times the warranty of the competition, making them a longer-lasting, more durable, and more reliable source of safe, efficient, and economical heating.



The GF Heater offers stainless steel construction to withstand moisture and chemicals, a tubular heat exchanger for significantly longer life, 80% thermal (combustion) efficiency and the highest BTU output of any gas-fired heater.

### RBI Boilers

Our low-mass RBI boilers are the perfect choice for hydronic heating, with high quality construction, quiet operation and energy efficiency as high as 98%. These boilers are built to provide long life and ease of service.



### IE2 Condensing Boiler

The Infinite Energy 2 (IE2) condensing boiler uses a radial variable circulation stainless steel heat exchanger for maximum heat transfer, resulting in up to 98% efficiency. These durable heat exchangers are easily serviceable and ASME certified. The unit's modular design and easy-to-set-up integrated controls provide flexibility and non-stop functionality.

