Heating Systems for All Types Of Greenhouses
Delta T Solutions hot water heating systems utilize the physics of heat to efficiently heat the plants. Placing the heat under the plants allows the heat source to react faster to temperature changes at the plant level. Heating from below offers a more consistent temperature, better plant quality and lower heating costs.

Heating Systems:
• Hot Water Boilers
• Heat Exchangers
• EPDM Rubber Tube Bench-Top Heating
• EPDM Rubber Tube In-Ground Heating
• High Density Polyethylene Concrete Floor Heating
• Twin-Fin Aluminum Tube heating
• Multi-Fin Aluminum Tube heating
• Warm Water Irrigation
• Hot Water unit Heaters
• Gas Fired Unit heaters
• One Source System Responsibility

You know what you want – to heat your greenhouse efficiently. You also want a heating system that can withstand the harsh greenhouse environment. This is why Delta T Solutions carries a full product line of stainless steel encased Sterling unit heaters and RBI boilers. Their stainless steel construction provides maximum protection against moisture and rust. And while they are built to last; no other heating units are more efficient, economical and safe.

It’s a fact; no other company is more devoted to meeting your heating needs than Delta T. That’s because we are the only company dedicated solely to greenhouse heating. Contact us for a representative nearest you.

Boilers

Natural Draft Boiler
These boilers are the workhorses of the industry. Basically this style of gas fired boiler uses surrounding air to provide the required heat for radiation. The high quality construction, quiet operation and a variety of control options make these boilers the perfect choice for greenhouses.

The grower’s choice for natural draft boilers, they offer fast response, smooth heat transfer, load matching and up to 82% energy efficiency. Integral, 2-pass heat exchanger and standard bronze headers ensure long-life performance and years of worry-free service.

Natural draft boilers are available sizes from 100,000 btu/hr up to 4,000,000 btu/hr. The smaller boilers uses modulating burners to provide precision control of the gas supply to the system, while the larger boilers use 4 stage firing to provide precision control to the system.
Sealed Combustion Boiler

These units offer superior performance and serviceability in a high efficiency, multi-stage boiler. At the heart of the unit is the sealed combusting chamber that provides the flexibility of using outside air or mechanical room air for combustion. The chamber design, with fan-assisted, multi-speed blowers and state-of-the-art staging control, offers high efficiency stage firing in a compact package. This boiler virtually eliminates heat loss. With the sealed combustion design this boiler also provides a low Nox rating that meets the strictest air quality standards.

Oil Fired Boiler

For capacities up to 15,000,000 btu/hr, the Delta T oil fired boilers are A.S.M.E. stamped for working pressures of 125 PSI. They come completely assembled, wired and fire tested for quality assurance. Easy to maintain, there is full access to the water sections, combustion chamber and the easily removable tube bundle.

Electronic Boiler Control

Delta T’s electronic boiler control contains a microprocessor based energy management control that regulates water temperature by sequencing up to twelve stages on a single multiple boiler installation. Its advanced design and revolutionary logic structure ensures lower operating costs and a superior growing environment.

The boiler control has on-board diagnostics with LED indicators. It features outdoor reset, self-testing, adjustable pump shutdown delay (0-10 minutes) and auxiliary test interface for easy field testing. The boiler control offers more than just savings on operating costs, it can maximize crop turnovers. And that’s what really makes the boiler control pay for itself.

Heat Exchangers

Delta T offers steam to water and water-to-water heat exchangers. All of Delta T’s heat exchangers represent the latest technology in performance and are designed for superb efficiency, low maintenance, long life and fitting into tight spaces. Understanding how important growing space is, Delta T’s heat transfer units use up to 80% less floor space than shell and tube models and weigh up to 10 times less. That means they are easy to ship, handle and don’t use up precious growing space.

The flat plate (FP) heat exchangers are rugged and reliable, yet very compact. Designed for a wide variety of fluid-to-fluid applications, the exchangers are perfect for greenhouses that require efficient heat transfer. They are economical yet very compact. Designed for a wide variety of fluid-to-fluid applications, the exchangers are perfect for greenhouses that require efficient heat transfer. They are economical yet very compact. Designed for a wide variety of fluid-to-fluid applications, the exchangers are perfect for greenhouses that require efficient heat transfer. They are economical yet very compact. Designed for a wide variety of fluid-to-fluid applications, the exchangers are perfect for greenhouses that require efficient heat transfer.

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Unit Heaters

Gas Fired Unit Heaters
The “TF” is a propeller type unit heater that combines the latest tubular heat exchanger with in-shot burner technology. Built with quality materials, the Sterling gas fired unit heaters is unsurpassed for reliability. Available in two cabinet styles, Low Profile (sizes 30 -90 MBH) and Vertical type (100 -400 MBH).

Standard Features:
· 20 gauge tubular heat exchangers
· Aluminized steel or all stainless steel
· 9 sizes ranging from 100 to 400 MBH
· In shot type burner
· Hot surface pilot ignition system
· 20 gauge jacket panels w/baked enamel finish
· Also available with the all stainless steel cabinet
· Power vented
· Easy access control panel
· Certified for category I and III venting
· Terminal strip low voltage wiring
· 81% thermal efficiency
· 10 year warranty
· Factory fire tested

All motors are encased in stainless steel and include internal thermal overload protection for reliability and long life. The easy to install units have low current motors that are extremely efficient and virtually maintenance free.

Hot Water Unit Heaters
Sterling model “HS” horizontal unit heaters are available in both serpentine and header type units. Serpentine units offer outputs from 8,030 to 35,900 BTU’s and are ideal for hot water installations with limited clearances. Header type horizontal units range from 18,000 to 360,000 and can operate with either hot water or steam. Both units come standard with totally enclosed motors. Explosion proof motors are optional.

DeltaBench Warm Bench System
Designed for 1-6 benches, Delta T’s DeltaBench commercial grade system is perfect for propagation and germination heating. System uses radiant heat to warm the soil and plant roots. Rooting and plant growth is accelerated by controlling the soil temperature. It provides fuel savings of 20% or more over conventional forced-air heating.

Delta Temp™ Warm Water Irrigation
Delta Temp heats irrigation water from a frigid 35˚ F up to 70˚ F. The systems eliminate root zone thermal shock and save fuel required to heat up crops after watering. The system saves energy dollars because it allows instantaneous response without requiring large volumes of water. This means low or no radiation - standby loss. The system actually increases rooting germination rates and nutrient mixing, while preventing spotting and diseases on crops.

When heating with unit heaters or minimal boiler capacity, the Delta Temp I is the choice for providing warm water irrigation. For greenhouses with an existing boiler supplying steam or hot water, the Delta Temp II system is just like adding an additional zone.

Delta T Solutions