



SafeTrace™ Isolated Steam Tracing Energy Saver for Steam Tracing Systems

Application

For over five decades Thermon has helped customers get more heat out of their steam tracing. Very well known products in that respect are the [Thermon Heat Transfer Compounds](#) as well as the [ThermoTube®](#) pre-insulated tubing. To meet the demands of today's steam market and to replace the traditional concept of applying bare convection tracers for every application, Thermon designed a variety of new low temperature steam-tracing options called [SafeTrace™](#). The design engineer may now choose Thermon for several levels of heat delivery such as Standard Heat, Light Heat and Extra Light Heat. Each of these SafeTrace isolated external convection steam tracers offer a different level of heat delivery. With reduced heat delivery comes more practical temperature maintenance levels in the range of 10 to 100 °C. This covers a majority of the heat tracing applications and can contribute to a considerable steam saving.

Steam tracers run both beneath the insulation as well as extend out of the insulation at flanges, valves, equipment and expansion joint areas. These areas can be potential burn risks for the plant personnel who maintain the facility. SafeTrace™ products have a unique "touch-safe" characteristic. This has been achieved by applying one or more non-thermally conductive layers to a steam tube's exterior surface which reduces the instantaneous heat flow into the skin during an accidental touch event.

SafeTrace™ Benefits

- SafeTrace IT tracers comply with ASTM Std C-1055 for skin exposure temperatures of less than 60°C.
- Permits winterization for any size of pipe.
- Predictable temperature results.
- Eliminates hot/cold spots associated with bare metal tracers and spacer blocks.
- Prevents damage to temperature sensitive products.
- Reduced installed costs of "Light" tracing systems.
- Lower operating and maintenance cost because of reduced steam usage up to 50%.
- Fewer fittings resulting in less maintenance and repair.
- No galvanic corrosion between pipe and steam tracer.
- Reducing the number of traps can also reduce repair and trap replacement costs.



PRODUCT / APPLICATION INFORMATION



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