

A TERI waterbath heater is your simple answer on how to heat process fluids safely, reliably, and efficiently. Indirect fired process heaters derive their name from the method of submerging the process coils in a heated bath solution which allows for energy transfer to take place indirectly from the firetube to the process media. This arrangement ensures safe, reliable, and uniform heating.

By utilizing industry best practices along with our experience and design philosophy, TERI manufactures heaters that not only operate safely and reliably, but also achieve high efficiencies and proper emissions. Our unique approach to design allows for a truly custom designed solution that gives you the lowest cost of total ownership. Let us show you how you can achieve this on your next heating system.



APPLICATIONS

- Heating natural gas prior to pressure reduction to prevent freezing of valving and instrumentation
- Heating well stream fluids prior to phase separation
- Heating of high viscosity fluids to reduce pumping pressures
- Heating fuel gas at power generation station
- Heating at compressor stations
- Fuel gas dew point control
- Heating high pressure hydrocarbon gas streams
- Vaporization of liquid propane
- Reboiler heating



STANDARD FEATURES

- Designed and built in accordance with API 12K
- Removable firetube and coil bundle
- 100% radiography on process coil welds
- Process coil built to ASME VIII Div 1. National board stamped
- Pilot-in-a-drawer: easy access, quick removable pilot assembly
- 304 Stainless Steel stacks
- ASME CSD-1 fuel gas trains, custom designs available including NFPA 87
- Designed, fabricated, and fully tested (including shop-fired) all in-house by OGI



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**ENGINEERED FIRED EQUIPMENT
FOR THE ENERGY INDUSTRY**

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TERI horizontal waterbath heaters are commonly used in applications where process temperatures do not exceed 170°F, including utility, gas processing, refining of oil, gas and other industrial applications. Our Natural Draft Horizontal Heaters are custom designed and engineered for each application and can be designed in single, double, or triple-burner configurations. TERI Natural Draft Horizontal Heaters are ideal for remote locations or areas with limited power supply.

For low-emission requirements, TERI forced draft heaters offer an ideal solution to reduce dead gas film along the tube walls, and provide superior burner control, making fine-tuning the air/fuel ratio possible to achieve efficient combustion and lower emissions.

With capacities from 0.3 MMBtu/hr up to over 15 MMBtu/hr, our expert team can conceive and construct the right TERI Horizontal Heater for your needs. With available options in both forced draft and natural draft models, TERI heaters can accommodate any working conditions, environmental compliance, and power availability.

AVAILABLE OPTIONS

- Custom coil configurations to meet footprint and space constraints
- Customized heater supports to meet existing pier locations
- Shell treated with water-soluble rust prevention coating
- Hot-dipped galvanized skids, ladders and platforms
- 110% containment skids with drain valves
- Pneumatic, electric, or combination equipment operation controls
- High pressure coil ratings up to 10,000 psig
- Flame-safeguard assemblies including pneumatic, 120VAC, 24VDC, 12VDC, or solar power
- Manual, pushbutton, automatic relighters, and Burner Management Systems (BMS)
- Remote control and monitoring
- Low NOx and Ultra Low NOx
- PLC based controls
- HMI displays
- Low noise flame arrestor modifications
- Flame arrestor draft controls
- Stack insulation
- Long term storage prep
- Startup and commissioning
- Field modifications and upgrades
- Preventative maintenance and field training



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