



***FIRED HEATERS***  
*for the refining and petrochemical industries*



## **TULSA HEATERS INC.**

Since incorporation in 1985, **TULSA HEATERS INC. (THI)** has grown into a technically-sophisticated, financially-capable worldwide manufacturer of fired heaters and waste heat recovery products. As of 2011, **THI** has manufactured more than 700 new products, executed more than 900 revamps and retrofits and completed more than 300 engineering studies.

A worldwide network of representatives and suppliers enables **THI** to provide quality products and services in all of the major industrial markets both before and after the sale. Combining the technical and financial capabilities of a large company with the flexibility and responsiveness of a small company, **THI** manufactures cost-efficient, state-of-the-art products for all general service applications, regardless of product size and complexity.

### **Technology**

**THI** has consistently placed a high priority on empowering its staff with leading-edge engineering and design tools. Consequently, **THI** has a family of proprietary process design programs, 3D finite element analysis structural design software, 2D and 3D CADD systems and an array of complementary programs and tools.

These tools collectively support the objective that every product—regardless of size or complexity—meets or exceeds our customer's expectations. With these historically-proven, time-efficient tools, every product offering is underwritten by a robust thermal model and the complementary combustion, draft and hydraulics models.

**THI's** engineering and design tools enable our staff to create, model and guarantee products for a broad range of services and sizes, in compliance with a customer's specifications and expectations, with minimal technical risk to **THI** and to the customer. Our typical product duty range of 4 to 400 MMBtu/h includes all industrial services (except services with catalyst-filled tubes) in a broad variety of product types, as summarized on the next page.

### **Quality**

Since incorporation, **THI** has continuously maintained a meaningful Quality Management System (QMS) that includes engineering, design, purchasing and fabrication modules. The **THI** QMS has been certified to ISO 9001:2008. The goal of the **THI** QMS is "to be the preferred source of fired heaters and waste heat recovery units." Our QMS policy also states that this goal will be achieved through our commitment to offer quality products and customer service at competitive prices.

## Products and Services

### Heater Products, by coil type

- › Horizontal Cabin Heaters  
Single or twin cell with single or double-fired radiant coils
- › Horizontal Cylindrical Heaters  
Single cell with single-fired serpentine or helical radiant coils
- › Horizontal Octagonal Heaters  
Single cell with single-fired serpentine or helical radiant coils
- › Vertical Cylindrical Heaters  
Single or twin cell with single-fired serpentine or helical coils
- › U-Tube/Wicket Box Heaters  
Single or multiple cell with single or double-fired coils

### › Vertical Box Heaters

Single or multiple cell with single or double-fired radiant coils



### › Horizontal Box Heaters

Single or multiple cell with single or double-fired radiant coils



### Complementary Heater Subsystems

- › Air Preheat Systems  
Forced, induced or balanced draft systems of any complexity
- › Burner Management Systems  
For gas and/or oil fired heaters of any complexity
- › Emissions Reduction Systems  
Multiple CO, NOx and/or SOx reduction technologies
- › Local Process Piping  
Manifolds, local spools and transfer lines of any complexity
- › Steam Systems  
Complete with pumps, drum, desuperheater and/or local piping
- › Sootblowing Systems  
Complete with sootblowers, local piping and control panel
- › Burner Fuel Piping  
For gas and/or oil fired heaters of any complexity

### Waste Heat Recovery Products, by flue gas flow

- › Horizontal Heat Recovery Units  
Single or multiple services with fixed or removable coils
- › Vertical Heat Recovery Units  
Single or multiple services with fixed or removable coils

### Complementary Waste Heat Recovery Subsystems

- › Bypass Systems  
Provide safety, duty control and noise abatement of any complexity
- › Emissions Reduction Systems  
CO and/or NOx reduction technologies
- › Local Process Piping  
Manifolds and/or local piping of any complexity
- › Steam Systems  
Complete with pumps, drum, desuperheater and/or local piping

- › Supplemental Firing Systems  
Complete with burners, fuel gas train and control panel

### Modules, Parts and Services

- › Emergency Replacements  
Components, systems and entire products (regardless of OEM)
- › Field Services  
Commissioning, troubleshooting, inspection and testing (regardless of OEM)
- › Mechanical Engineering Services  
Coil stress and vibration models, failure analyses (all OEMs)
- › Process Engineering Services  
Debottleneckings, emissions reductions, CFD/CF models (all OEMs)
- › Retrofits and Upgrades  
In-kind replacements, debottleneckings and enhancements (all OEMs)
- › Spare Parts  
In-kind or engineered-by-**THI** spare and replacement parts (regardless of OEM)



## Worldwide Fabricators

North America  
South America  
Europe  
Oceania  
Asia

## Worldwide Representatives

North America  
South America  
Europe  
Oceania  
Asia  
Middle East

## Customer Support

[www.tulsaheaters.com](http://www.tulsaheaters.com)  
[info@tulsaheaters.com](mailto:info@tulsaheaters.com)  
00-1-918-582-9918 (telephone)  
00-1-918-582-9916 (fax)

## Send RFQ Inquiries to:

[rfq@tulsaheaters.com](mailto:rfq@tulsaheaters.com)  
or  
**TULSA HEATERS INC.**  
International Plaza  
1350 S. Boulder, Suite 800  
Tulsa, OK 74119

---



**TULSA HEATERS INC.**