



# SHO HEATER LINE



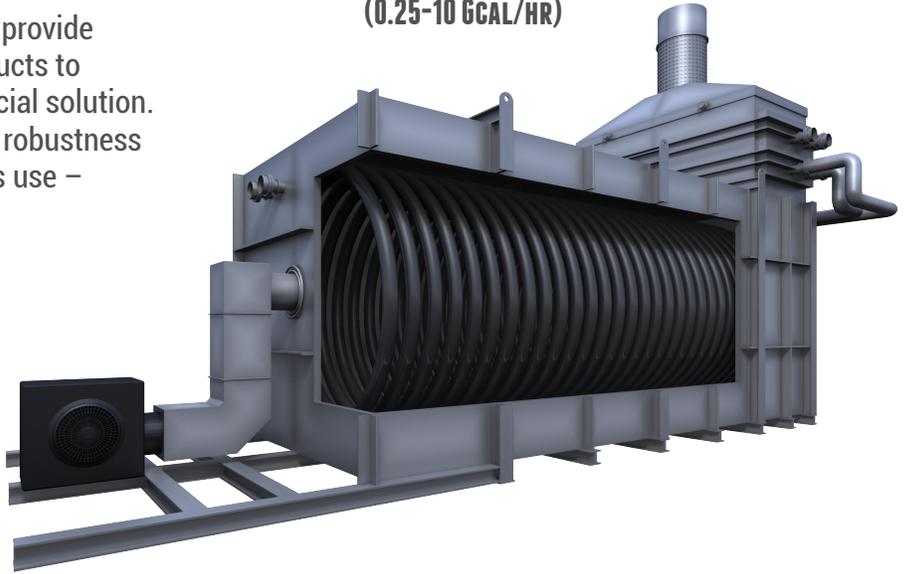
# / SHO HEATERS

**FROM 1 - 60 MMBTU/HR**  
**(0.25-10 GCAL/HR)**

The THM SHO heater line was developed to provide 'custom-engineered' industrial quality products to customers that desire more than a commercial solution. The SHO line has the quality, durability, and robustness that tolerates years and years of continuous use – without fail.

SHO heaters have been used in gas plants, refineries, power plants, and other applications. Typical services for SHO heaters include:

- Hot oil heater
- Regen gas heating



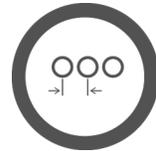
Every SHO heater is designed using API 530/560 fired heater guidelines as a base. These guidelines have been used for industrial heater design for more than 30 years, and ensure the heater is designed to the robust standards of the refining & petrochemical industries.



THM utilizes ultra low NOx burners without the problems of external flue gas recirculation. These burners allow us to guarantee the lowest NOx emissions in the industry, helping you meet or exceed local and state requirements.



Each SHO heater includes a custom-designed convection section. This section of the heaters allows us to maximize the heater's efficiency. With guarantees at or above 85% in many cases, THM can help you save on fuel costs compared to other commercial heaters.



Tube spacing design is a critical component of heater design. THM uses the API guideline of '2D' spacing, which allows for the most even distribution of heat to the coils - ensuring you get the longest life possible out of your heat medium.

## MODULAR SOLUTIONS

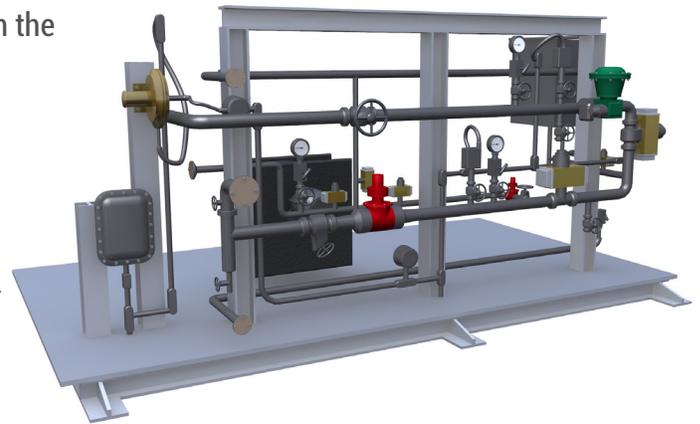
Using module designs help to minimize field erection time and labor. The size and weight of each module will be maximized (up to the purchaser's shipping constraints) to minimize the quantity of modules. Each module also has lifting lugs suitable for safe handling and erection. THM's standard practice is to maximize shop fabrication and assembly. This practice consistently yields the lowest installed cost to the owner for all types of fired heaters.



# / CMS SKID PACKAGE

With inlet piping from 1" to 4" NPS, THM has a Combustion Management System package to handle all heat releases in the SHO heater range.

- ✓ BMS package is skid mounted for quick and easy installation. In most cases, the skid is attached to the heater prior to shipment.
- ✓ Standard packages available, with options to meet customer and project specifications.
- ✓ Pre-commissioning and start-up assistance available for all projects to ensure that your project has a successful start.
- ✓ Gas and oil firing options available



## WHAT ARE PEOPLE SAYING?

*"Tulsa Heaters Midstream helps us deliver value to our customers by providing high quality packages at a competitive price. Their team is very responsive and their projects have been on time, which is critically important to my company and our customers."*

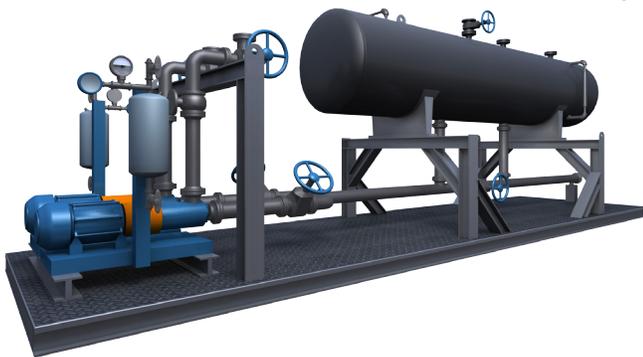
- Process Engineer

*"We have different heaters from different vendors at our plant. The heaters from Tulsa Heaters Midstream are our favorite by far. Once commissioned, they operate themselves, and we haven't had any problems. Their service team is very knowledgeable and available any time we need them."*

- Plant Operator

# / OIL CIRCULATION SKID PACKAGE

Following our SHO heaters and BMS packages, the THM Oil Circulation Skid packages are pre-engineered to provide a fast solution, while still providing the flexibility needed to meet project specific requirements.



- ✓ Job specific pumps provided on each skid. These can be designed as twin 100% pumps, or three 50% pumps depending on customer preference.
- ✓ Project specific expansion drums integrated onto the skid.
- ✓ Options available to meet all customer and project specifications.

## TRAINING:

Tulsa Heaters Midstream offers several opportunities for training. Each year, we offer a Heater School for owners and operators at our facility in Tulsa, OK. Additional on-site training is available upon request.



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