

## QMax Delivers the Best Steam Tracing System for Sulphur Operations



**Q**Max FTS (Fluid Tracing System) combines performance comparable to jacketed pipe with the flexibility and low cost of standard steam tracing.

### Best Overall Solution

Heating and maintaining temperatures in process piping is very important to the operation of Sulphur Recovery Units (SRUs), Tail Gas Treating Units (TGTUs) and other sulphur operations. Key criteria in selecting heating systems include:



“If you have a need for precise heat transfer and temperature control, QMax FTS is definitely superior over stainless steel tubing and other products on the market. If you have the need for large heat transfer, QMax FTS is especially better than what is out there, and I would definitely use it again.”

Reliability Engineer,  
PBF Energy

- Performance
- Capital Cost
- Maintenance Cost
- Ease of Installation

For most piping systems, QMax FTS is the best overall heating solution. Here's why:

#### Weighing Your Options

Until recently, fully-jacketed pipe and carbon steel tracing were the only widely accepted systems using steam as the heating medium.

Fully-Jacketed Pipe:  
High Performance, But High Cost

When designed properly, fully-jacketed pipe (jacketing the core pipe with a second, outer pipe and conveying heating medium in the annular space) is the most effective system for maintaining process temperatures in piping. Jacketed pipe offers the greatest heating surface area around the process pipe and offers direct heating contact between the process and heating medium.



QMax Industries is a technology company based in Charlotte, NC with several innovations in the field of process heating.

Our specialties include:

- > High Performance Steam Tracing
- > High Performance Electric Tracing
- > Equipment Jacketing
- > Tank Heating



### Clear Advantages

#### Fewer Leaks

QMax FTS reduces the number of leak points by eliminating welding and fittings. No costly hoses are required for the system.

#### Easy Installation and Maintenance

QMax FTS fits under common tubing with no welding, so installation and maintenance are easy and well understood.

#### Lower Cost

The total installed and long term maintenance cost of QMax FTS is consistently lower than jacketed pipe, tube tracers or carbon steel tracing.

#### Engineered Systems

Each application is specifically designed for particular heating requirements to offer precise temperature control and energy consumption.



QMax FTS is a highly conductive aluminum channel that fits under standard stainless or copper tubing to maximize heat transfer from the heating medium to the process pipe.

Field installation is quick & simple.

Fluid

“We’re committed to be the world leader in steam tracing technologies”

Thomas W. Perry  
President

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## QMax FTS: Tank Heating Solutions

The innovative design of QMax FTS maximizes the heat input of regular stainless steel or copper tube tracer and offers consistent results.

First, QMax transforms the nature of a steam tracer from ineffective convective heat transfer to highly efficient conductive heat transfer. Second, the heating surface area is increased to as much as 2 inches using highly-conductive aluminum.

When compared to traditional tracing on a vessel, the QMax FTS system can significantly reduce the number of tracing passes required. When compared with traditional plate coils, QMax FTS can offer much greater contact for more consistent results.

## APPLICATIONS

### Maintain Bulk Process Temperatures

- > Liquid Sulphur Lines (run-down transfer)
- > Amine Acid Gas
- > Sulphur Storage Tanks (below liquid level)

### Maintain Minimum Wall Temperatures

- > Tail Gas
- > Sulphur Pit Sweep Gas
- > Sour Water Stripper Gas
- > Sulphur Storage Tanks (above liquid level)

### Maintain Equipment Operability

- > Liquid Sulphur Valves, Pumps, Meters
- > Liquid Sultraps™ & Look Boxes
- > Diverter Valves
- > Instrumentation Valves



## Thermal Modeling Means Project Success

QMax Industries provides qualified customers with detailed complimentary thermal analysis on all applications to model the temperature profile of the system during the specification or estimating stage. This analysis is performed to optimize the system and ensure project success.

Deliverables from this analysis include:

- > Thermal guarantee for maintaining bulk process temperature and / or minimum wall temperature
- > Heat-up and Melt-out times
- > Steam consumption to help size steam traps and condensate system
- > Comparative system analysis (how QMax FTS compares to other systems)