POWER: 6,000 to 75,000 W	**MAX INLET TEMP: 392°F ***
MAX EXHAUST TEMP: 932°F	**PRESSURE: 120 PSIG**

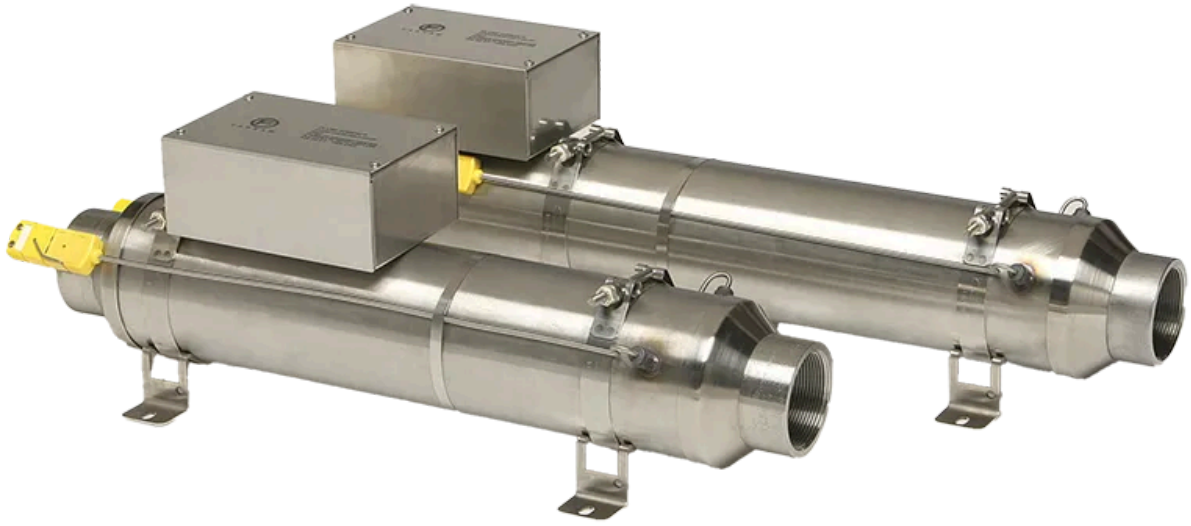
BUILD YOUR OWN **SHARE DETAILS & QUOTE**

Flow Torch™

High-Performance Industrial Air Heating Solutions

MADE IN THE **USA**

- Ideal for low pressure (and economical) blowers
- Heat air up to 482°C (900°F)
- Fast heat up and cool down due to low mass open coil design
- All Flow Torch Heaters are UL recognized components under UL file number E365755
- 250°F standard inlet temperature *(392°F possible with modification)



The Flow Torch™ family from TUTCO Farnam represents the next generation of industrial air heaters, engineered to meet the demanding needs of modern manufacturing, research, and development environments. Designed with low-mass open coil elements, Flow Torch heaters provide rapid heat-up and cool-down, while delivering high airflow with minimal pressure drop.

Whether your process requires precise temperature control for testing equipment, high-volume airflow for manufacturing lines, or robust heating in complex industrial systems, Flow Torch heaters offer adaptable, reliable solutions. Built with durability, flexibility, and safety in mind, Flow Torch is the trusted choice for engineers and technicians who demand high performance without compromise.

TUTCO Farnam offers a range of graduated sizes for this versatile platform, making it a standard product with multiple customizable options. Our team provides application assistance to help you select the industrial air heater

that best suits your needs. Additionally, control packages, pressure drop charts for easy comparison, and regenerative blowers integrated with complete systems are all available. With a long-standing history of dominance in the industrial heating solutions space, you can be confident that your custom Flow Torch™ will deliver optimal performance and longevity.

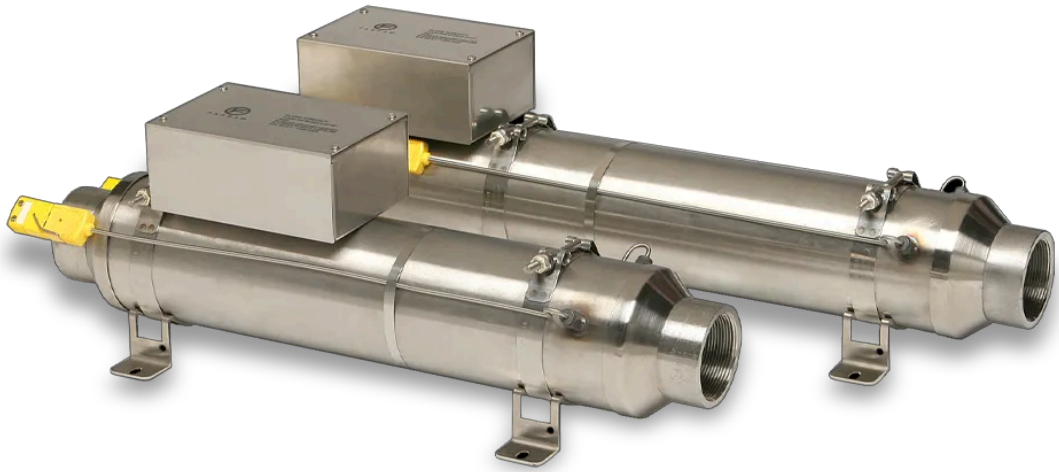
Flanged Fittings!

We have flanges available as a standard option on our Flow Torch heaters. Click here to build your FT400, FT600 & FT800 with flanged inlet and exhaust fittings.

Flow Torch™ 200

MAX WATT: 6000W	**MAX INLET:** 392°F
MAX EXHAUST: 900°F	**MIN SCFM:** 10
MAX SCFM: 115	**PSIG:** 120*

VIEW PRODUCT



Flow Torch™ 400

MAX WATT: 35000W	**MAX INLET:** 392°F
MAX EXHAUST: 900°F	**MIN SCFM:** 19
MAX SCFM: 500	**PSIG:** 3*

VIEW PRODUCT

Flow Torch™ 600

MAX WATT: 60000W	**MAX INLET:** 392°F
MAX EXHAUST: 900°F	**MIN SCFM:** 38
MAX SCFM: 1100	**PSIG:** 3*

VIEW PRODUCT

Flow Torch™ 800

MAX WATT: 75000W	**MAX INLET:** 392°F
MAX EXHAUST: 900°F	**MIN SCFM:** 76
MAX SCFM: 2000	**PSIG:** 3*

VIEW PRODUCT

Key Features & Benefits

High Airflow with Minimal Resistance

Flow Torch heaters are engineered for large-volume air movement while maintaining low pressure drop. This design ensures your systems operate efficiently, reduces energy consumption, and prevents bottlenecks in airflow-dependent processes.

Rapid Thermal Response

The open coil element heats up almost instantly and cools down quickly, enabling precise temperature control and fast cycling between operations. This responsiveness improves process consistency, reduces downtime, and increases overall productivity.

Wide Operating Temperature Range

Capable of reaching up to 900°F (482°C), Flow Torch heaters handle a variety of industrial applications. Modified inlet temperature options expand versatility, making the Flow Torch adaptable to specialized processes.

Customizable Configurations

Flow Torch heaters can be tailored to meet exact system requirements. Options include:

- Flanged fittings for straightforward system integration
- Multiple voltage and wattage configurations
- Choice of materials for environmental or chemical resistance
- Custom mounting solutions for specialized equipment

Built-In Safety & Compliance

Every Flow Torch heater incorporates UL-recognized components (File #E365755), ensuring reliable operation while meeting industrial safety standards.

Durable, Long-Lasting Design

Constructed to endure demanding industrial environments, the Flow Torch provides consistent performance over time, reducing maintenance costs and minimizing downtime.

Why Choose TUTCO Farnam Flow Torch™ Heaters?

TUTCO Farnam has decades of engineering leadership in industrial electric air heating. Flow Torch™ heaters are a proven solution trusted by OEMs, system integrators, and R&D organizations worldwide. We combine:

- Precision-built heating elements
- Industry-leading temperature performance
- UL-recognized safety compliance
- Custom engineering support
- Fast response and reliable long-term operation

Advantages Over Conventional Air Heaters

Optimized Airflow Performance

Engineered to deliver high volumes of air with minimal obstruction, Flow Torch heaters reduce energy use while maximizing efficiency in large-scale industrial systems.

Precise Temperature Control

The open coil design provides nearly instantaneous heating and cooling, enabling accurate process control and reducing waste from temperature fluctuations.

Seamless Integration

Flexible mounting, voltage, and material options make it easy to integrate Flow Torch heaters into existing systems or customized industrial setups.

Energy & Process Efficiency

High airflow, fast response, and low pressure drop combine to create a system that is both cost-efficient and highly productive.

Applications

Flow Torch™ heaters are engineered for versatility and performance, making them ideal for a wide range of industrial and research applications:

Process Air Heating
Maintain consistent, controllable temperatures across manufacturing and assembly lines. Flow Torch heaters ensure uniform airflow, improving product quality and reducing energy waste in high-volume operations.

Environmental Chambers & Test Equipment
Provide precise, repeatable temperature conditions for laboratory and testing environments. The rapid thermal response of Flow Torch heaters allows accurate simulation of real-world conditions, critical for R&D and quality assurance testing.

Research & Development Facilities
Ideal for experimental setups requiring fast heat-up, controlled airflow, and variable temperature ranges. Flow Torch heaters help researchers achieve consistent results while adapting to unique testing requirements.

HVAC & Industrial Ventilation Systems
Integrate seamlessly into large-scale air handling and ventilation systems, providing supplemental heat where precise control is required. Low pressure drop ensures efficiency without overloading fans or blowers.

Rapid Drying & Curing Operations
Accelerate production processes by delivering high-volume heated airflow for drying paints, coatings, adhesives, or other materials. The quick thermal response reduces cycle times while maintaining consistent temperatures.

Specialized Industrial Processes
Flow Torch heaters are adaptable for chemical processing, food and beverage applications, or other operations where controlled, high-volume heated air is critical. Custom configurations allow integration with unique systems or challenging environments.

Ready to Build Your Solution?

Request a Quote or Contact our Applications Engineers to learn how a Flow Torch™ heater can improve your process consistency, energy efficiency, and thermal performance.

Control Systems & Temperature Regulation

Check out these upgrade options for the Flow Torch™

Control Panels

Closed-loop heater control systems use a power controller, temperature controller, and thermocouples to monitor and provide constant output temperature.

VIEW PRODUCT

Insulation Blankets

Our insulation blankets are made specifically for the Flow Torch family of products. Improve safety for people and products, and save money by reducing waste heat.

GET INFO

Frequently Asked Questions

WHAT IS THE PURPOSE OF AN INSULATION BLANKET ON AN INDUSTRIAL AIR HEATER? —

Insulation blankets reduce surface temperature, improve energy efficiency, and minimize radiant heat loss. They help maintain a safe working environment while stabilizing the heater's thermal performance.

CAN FLOW TORCH HEATERS BE INTEGRATED INTO COMPLETE HEATING SYSTEMS? —

Yes. TUTCO Farnam offers control packages, pressure-drop charts, regenerative blowers, and full system integration support. Complete heater-and-control assemblies can be specified to match your process requirements.

CAN FLOW TORCH HEATERS BE CUSTOMIZED? —

Absolutely. Options include flanged inlet/exhaust fittings, multiple voltages and wattages, specialized mounting configurations, alternative housing materials, and modified inlet temperature capabilities.

WHAT TYPES OF AIR SOURCES CAN BE USED WITH FLOW TORCH™ HEATERS? —

Flow Torch heaters are designed for low-pressure, economical blowers and are compatible with clean, dry air or inert gas streams. They are ideal for high-volume airflow where minimal pressure drop is essential.