

POWER: 300 to 12,500 W

MAX INLET TEMP: 250°F

MAX EXHAUST TEMP: 932°F to 1300°F

PRESSURE: 120 PSIG*

Heat Torch™

High-Intensity, Compact Air Heating Solutions for Controlled, High-Temperature Processes



- Ideal for compressed air and clean, pressurized gas streams
- Heat air and inert gases up to 900°C (1652°F) depending on model
- Fast thermal response for accurate, repeatable temperature control
- Compact, cylindrical design for easy integration into tight systems
- UL-recognized components under UL File #E365755



The **Heat Torch™** series from TUTCO Farnam delivers concentrated, **high-temperature air heating** performance in a compact, reliable package. Engineered for precision, efficiency, and long service life, Heat Torch heaters are trusted across industries that require controlled, repeatable heat in a small footprint.

Each Heat Torch model incorporates a **low-mass open-coil heating element** designed to respond rapidly to temperature changes, providing superior accuracy in dynamic or tightly regulated applications. Whether you are heating compressed air for a laboratory process, integrating a heater into automated machinery, or building high-temperature test equipment, Heat Torch products provide consistent performance with minimal pressure drop.

Offered in a wide range of sizes, wattages, and configurations, the Heat Torch platform is one of TUTCO Farnam's most versatile product families. Our engineering team supports both standard and fully customized configurations—ensuring your system achieves optimal performance, energy efficiency, and longevity.



Heat Torch™ 030

MAX WATT: 300W	MAX INLET: 250°F
MAX EXHAUST: 932°F	MIN SCFM: 0.3
MAX SCFM: 1	PSIG: 120*

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Heat Torch™ 050

MAX WATT: 600W	MAX INLET: 250°F
MAX EXHAUST: 1300°F	MIN SCFM: 1
MAX SCFM: 10	PSIG: 120*

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Heat Torch™ 050 Mica

MAX WATT: 600W	MAX INLET: 250°F
MAX EXHAUST: 932°F	MIN SCFM: 1
MAX SCFM: 10	PSIG: 120*

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Heat Torch™ 075

MAX WATT: 1000W	MAX INLET: 250°F
MAX EXHAUST: 1300°F	MIN SCFM: 1.3
MAX SCFM: 25	PSIG: 120*

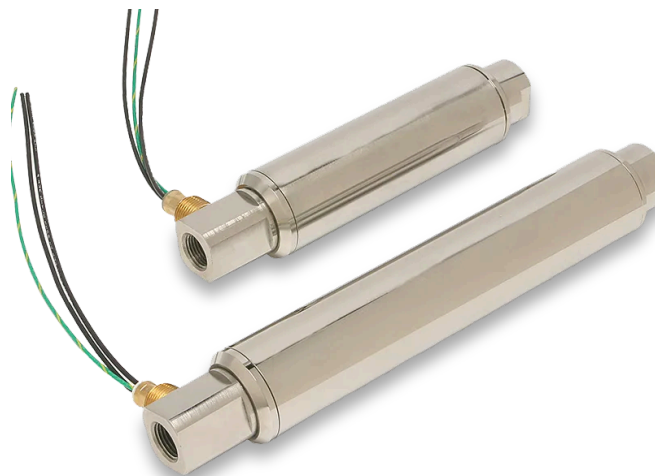
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Heat Torch™ 075 Mica

MAX WATT: 1000W	MAX INLET: 250°F
MAX EXHAUST: 932°F	MIN SCFM: 1.3
MAX SCFM: 25	PSIG: 120*

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Heat Torch™ 150

MAX WATT: 5000W	MAX INLET: 250°F
MAX EXHAUST: 1300°F	MIN SCFM: 4.8
MAX SCFM: 70	PSIG: 120*

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Heat Torch™ 200

MAX WATT: 12,500W	MAX INLET: 250°F
MAX EXHAUST: 1300°F	MIN SCFM: 9.6
MAX SCFM: 100	PSIG: 120*

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Key Features & Benefits

Compact, High-Intensity Heating

Heat Torch heaters deliver robust thermal output in a small cylindrical design, ideal for equipment with limited space or for point-of-use heating within complex systems.

Precise Temperature Control

Open-coil elements reach operating temperature quickly and cool down rapidly. This enables tight control bands, fast cycling, and consistent performance—even under variable flow conditions.

Broad Temperature Capability

Depending on the model, Heat Torch units can achieve outlet temperatures up to 900°C (1652°F). This wide range supports demanding industrial, research, and manufacturing processes.

Low Pressure Drop

Engineered internal geometries minimize airflow restriction, ensuring your compressor, blower, or delivery system operates efficiently without unnecessary load or energy loss.

Flexible Configuration Options

Customers can select from multiple voltages, wattages, terminal styles, mounting hardware, materials, and insulation options. Custom options include:

- High-temperature internal components
- Chemical-resistant housings
- Pressure-rated bodies

- Extended leads or protected terminal enclosures
- Integrated control solutions

UL-Recognized Safety & Compliance

All Heat Torch assembly components meet stringent safety standards under UL File #E365755. The design supports safe operation under high temperatures and continuous-duty industrial use.

Industrial Durability

Built with rugged materials and engineered for repetitive heating cycles, Heat Torch heaters deliver long service life and dependable operation in demanding applications.

Why Choose TUTCO Farnam Heat Torch™ Heaters?

TUTCO Farnam has decades of engineering leadership in industrial electric air heating. Heat 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

Faster Thermal Response

The low-mass open-coil design delivers extremely fast heat-up and cool-down—far superior to cartridge, tubular, or immersion-style heating devices.

Higher Temperature Capability

Many Heat Torch models exceed temperature limits of traditional inline heaters, enabling advanced or previously impractical process conditions.

Compact Integration

The cylindrical form factor fits easily into existing machinery and directly replaces bulkier assemblies while improving performance.

System Flexibility

With multiple standard models and extensive customization available, Heat Torch can be adapted to specialized systems without redesigning major equipment components.

Applications

Heat Torch™ heaters are used in a wide range of industrial and laboratory environments that require focused, controlled heat in a compact form factor.

Precision Process Heating

Deliver consistent, high-temperature air for automated manufacturing stations, assembly line tooling, or thermal treatment modules.

Plastics, Adhesives, and Polymer Processing

Provide controlled heat for bonding, forming, curing, flash-off, shrink-fit operations, and precision adhesive activation.

Research & Development

Dependable performance for experimental setups requiring fast response, accurate temperature profiles, and stable long-term operation.

Thermal Test Equipment

Support repeatable test environments for sensors, electronics, material samples, or mechanical components.

Drying & Curing

Accelerate production by delivering concentrated hot airflow for coatings, paints, inks, sealants, and other surface-treatment processes.

Packaging & Converting

Improve sealing, shrinking, forming, and laminating processes with controllable, high-intensity air heat.

Semiconductor, Medical, & Lab Equipment

Ideal for clean, controlled heating of nitrogen, compressed air, or inert gases in sensitive manufacturing environments.

Ready to Build Your Solution?

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

Control Systems & Temperature Regulation



TUTCO Farnam offers a full range of control solutions engineered specifically for Heat Torch™ systems. Our control panels provide accurate, reliable temperature regulation and seamless integration with your process equipment.

Key Control Options

Closed-Loop PID Temperature Control

Maintains tight temperature tolerances across variable flow rates and dynamic operating conditions.

Solid-State Relay (SSR) Power Switching

Delivers silent, efficient power modulation with extended service life and high cycling durability.

Integrated Safety Monitoring

Control packages can include:

- Type K thermocouples
- High-limit thermal cutouts
- Fault indication
- Airflow/pressure safety interlocks
- Ground-fault and overload protection

PLC & Automation Integration

Panels can be configured for Ethernet/IP, Modbus, and custom industrial protocols, making it easy to incorporate a Heat Torch heater into automated production lines.

Single-Source System Responsibility

Ordering heater + controls from TUTCO Farnam ensures matched components, correct power sizing, and verified performance.