

Heat Torch™ 030 Inline Air Heaters

Focused, High-Temperature Heating for Small-Scale Industrial and Laboratory Applications



The **Heat Torch™ 030** from TUTCO Farnam is engineered to deliver precision heating for applications requiring **tightly controlled, concentrated hot air streams**. With a compact **0.313" (7.95 mm) stainless steel body**, this inline air heater focuses heated airflow into small target areas with negligible heat loss, making it ideal for laboratory, manufacturing, and benchtop operations that demand accuracy and efficiency.

Designed for use with **compressed air or other non-combustible gases**, the Heat Torch 030 operates best between **0.3 SCFM and 1.0 SCFM**, providing reliable, repeatable performance at flow rates optimized for detailed thermal processes. Its robust stainless-steel construction ensures durability, while horizontal or vertical mounting options allow flexible integration into compact systems. (Horizontal mounting is recommended for higher-temperature applications.) With power options up to 300 watts and a maximum exhaust temperature of 900°F (482°C), the Heat Torch 030 delivers precise, localized heat where it's needed most—whether for melting, cutting, or sterilizing.



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

Key Features & Benefits

Compact, High-Precision Design

At just 0.313" in diameter, the Heat Torch 030 delivers exceptional temperature control and focused airflow for micro-scale processes and small workspaces.

Efficient, Low-Loss Operation

The streamlined design minimizes thermal losses, maintaining consistent output temperatures and maximizing energy efficiency.

Flexible Mounting Options

Mount vertically or horizontally to suit system design. (Horizontal orientation is preferred at elevated temperatures.)

Rapid Thermal Response

Fast heat-up and cool-down cycles enable quick process adjustments and tight thermal regulation.

Durable Stainless-Steel Construction

Engineered for long-term reliability and clean operation in demanding industrial or lab environments.

UL Listed Components

Ensures compliance, quality, and dependable operation across all voltage configurations.

Wattage and Voltage Options

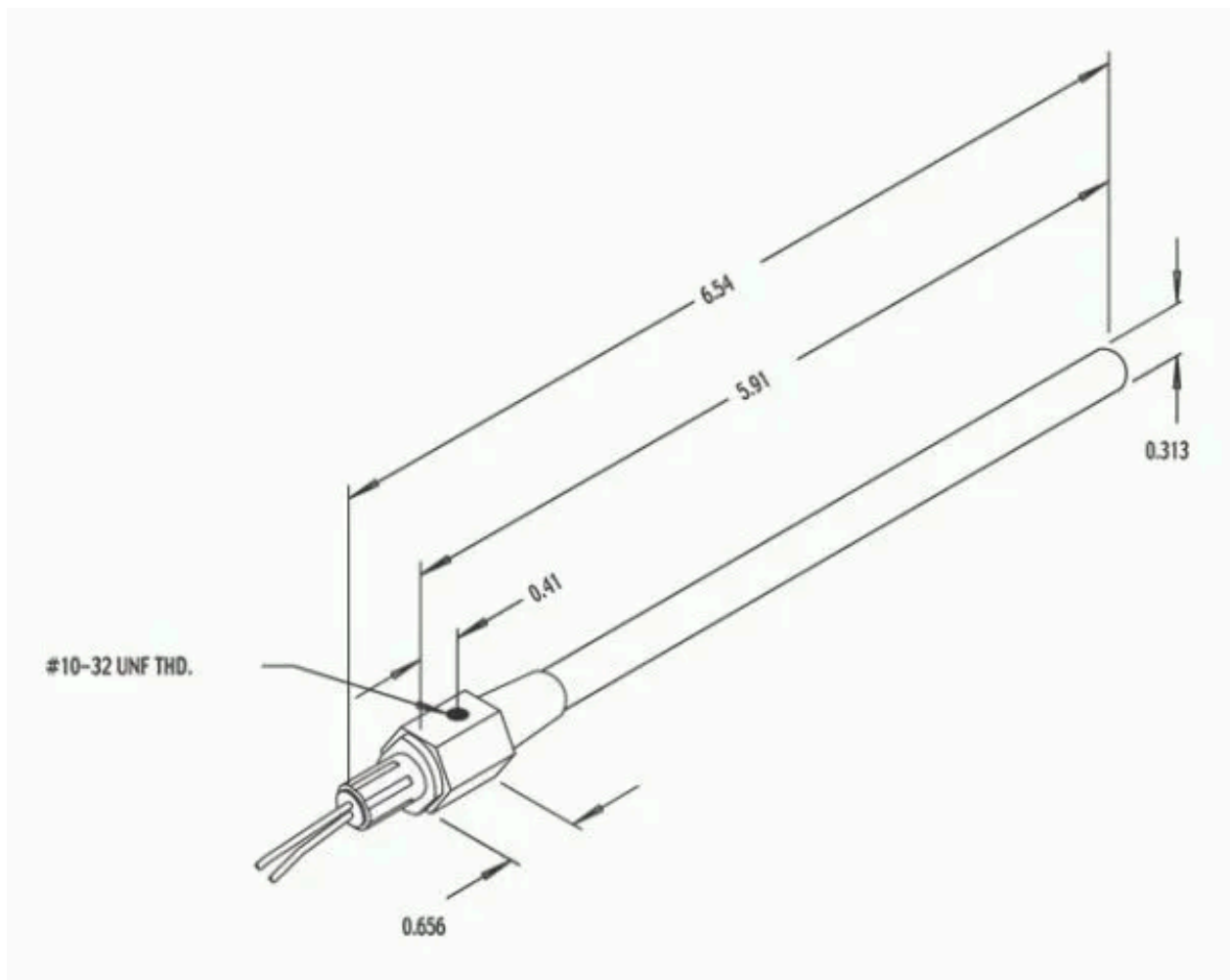
120 V, single phase – 50 W to 250 W

208 V, single phase – 100 W to 250 W

240 V, single phase – 100 W to 300 W

Specifications

Mounting	Horizontal / Vertical
Leads	20 Gauge, 12" long
Heater Body	Stainless Steel
Air Entryway Fitting	Stainless Steel
Inlet Fitting	10/32 - UNF Thread
Exhaust Fitting	NF - No Fitting



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.

Applications

The Heat Torch™ 030 is engineered for precision heating in compact systems, making it a versatile choice for laboratory environments, manufacturing lines, or benchtop workstations where accuracy and repeatability are critical. Its small size, focused heat delivery, and fast thermal response allow it to perform effectively across a wide range of specialized processes.

Typical applications include:

Melting – Efficiently melt small quantities of materials such as solder, plastic, or wax in controlled environments where even heating is essential.

Cutting – Provide clean, controlled thermal cutting of lightweight materials including thermoplastics, nylon, and films without mechanical stress or distortion.

Adhesive Activation & Curing – Reactivate or cure heat-sensitive adhesives, tapes, and films with precision airflow to ensure strong, uniform bonds.

De-soldering – Deliver pinpoint heat for removing electronic components and solder joints without damaging surrounding materials.

Heat Staking & Forming – Apply consistent, localized heat for shaping or staking thermoplastic components in assembly and production lines.

Sterilization – Generate high-temperature airflow to sterilize medical instruments, packaging, or parts in laboratory and cleanroom applications.

Drying & Preheating – Ideal for small-scale drying of coatings, films, or surfaces and for preheating components prior to bonding or finishing.

Laboratory & Research Use – Commonly used in research environments for prototype testing, material evaluation, and other controlled thermal experiments where compact, adjustable heat sources are required.

Process Development – Support thermal process development and validation in engineering and R&D applications, enabling precise heat delivery at low flow rates.

In every application, the Heat Torch 030 delivers consistent temperature, rapid response, and concentrated airflow, making it a go-to solution for engineers and technicians who need reliable, small-scale heat performance.

Advantages Over Conventional Heaters

The Heat Torch™ 030 provides several key advantages that set it apart from traditional small air heaters and hot air tools:

Focused, Controlled Heat Delivery – Engineered to concentrate heat in tight areas, the 030 minimizes thermal spread, improving accuracy in delicate or confined operations.

Energy Efficiency Through Low Thermal Loss – Its compact design and stainless-steel construction reduce heat losses to the environment, ensuring that nearly all generated heat is directed to the application area.

Rapid Thermal Response – Fast heat-up and cool-down cycles enable operators to make quick adjustments, improving process control and reducing downtime.

Compact, Lightweight Form Factor – At just 0.313 inches in diameter, the Heat Torch 030 integrates seamlessly into confined assemblies, test fixtures, or benchtop systems without sacrificing performance.

Versatile Mounting and Integration – Can be mounted either vertically or horizontally, and easily adapted to existing air systems using standard fittings – perfect for modular setups or OEM integration.

Durable, Long-Life Construction – All stainless-steel components and UL-listed materials ensure long-lasting, reliable operation even under continuous use in industrial or laboratory environments.

Broad Compatibility with Power and Air Sources – Operates efficiently on compressed air or inert gases, and supports multiple voltages (120V, 208V, and 240V) and wattages up to 300W, giving engineers flexibility across applications.

Consistent, Repeatable Performance – TUTCO Farnam's precision manufacturing ensures uniform heat distribution, consistent flow performance, and dependable operation over extended service life.

Minimal Maintenance Requirements – Simple, rugged design and high-quality materials reduce wear, downtime, and replacement costs compared to traditional hot air guns or bulkier systems.

Supported by TUTCO Farnam Engineering Expertise – Backed by decades of air heater innovation and application support, the Heat Torch™ 030 comes with access to TUTCO Farnam's team of engineers for integration, customization, and performance optimization.

Why Choose TUTCO Farnam Heat Torch™ 030 Heaters?

The Heat Torch™ 030 is the ultimate solution for micro-scale precision heating, combining compact design, rapid response, and exceptional temperature control. Whether used for benchtop testing, laboratory prototyping, or specialized industrial operations, it provides consistent, efficient, and reliable heat performance in the smallest available package.

Resources



BROCHURES

Heat Torch™ Brochure



MANUALS

Quickstart Guide



DRAWINGS

Dimension Drawing.PDF



3D DRAWINGS

3D Drawing.STP



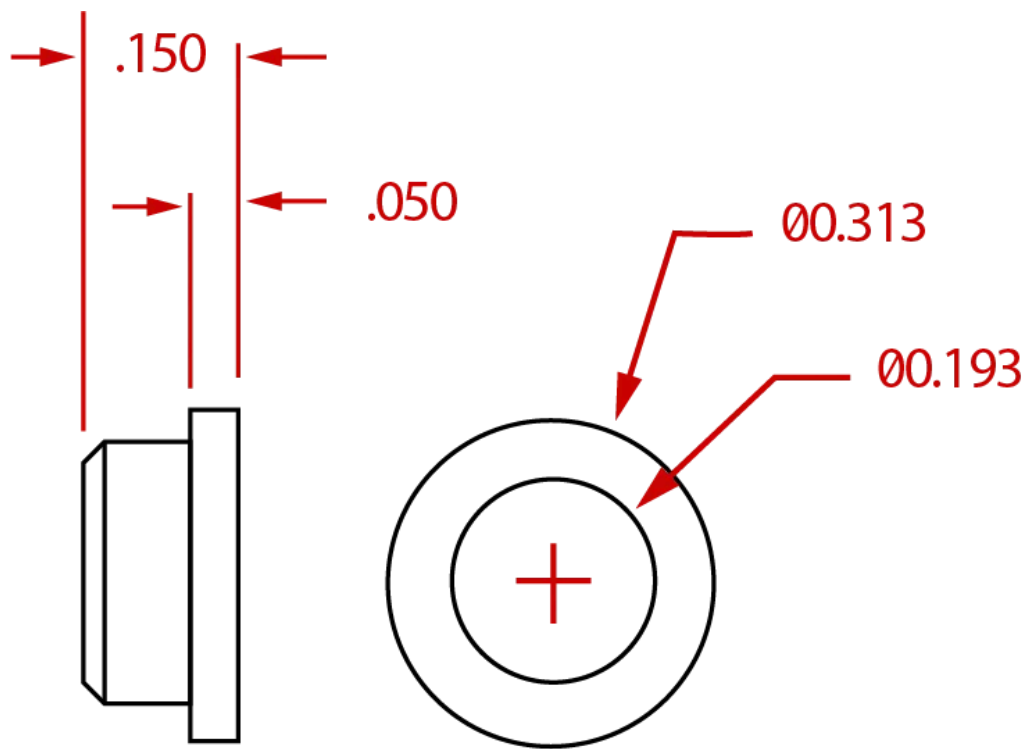
VIDEOS

Product Demo
Process Heaters

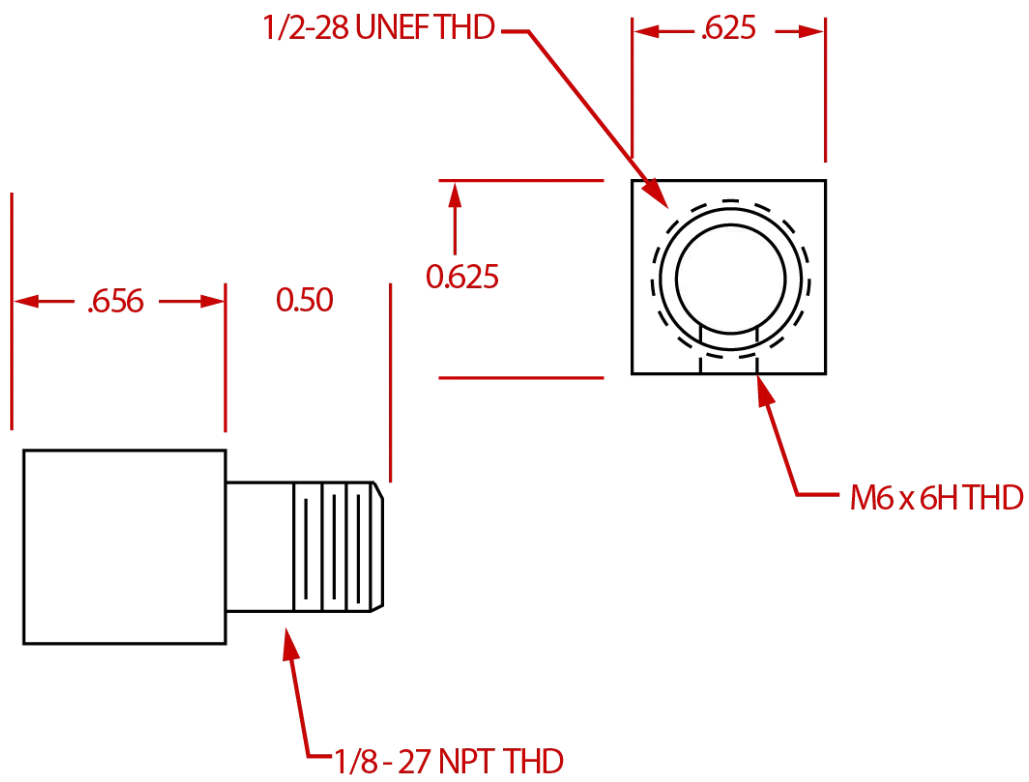
Additional Information

PRODUCT FITTINGS

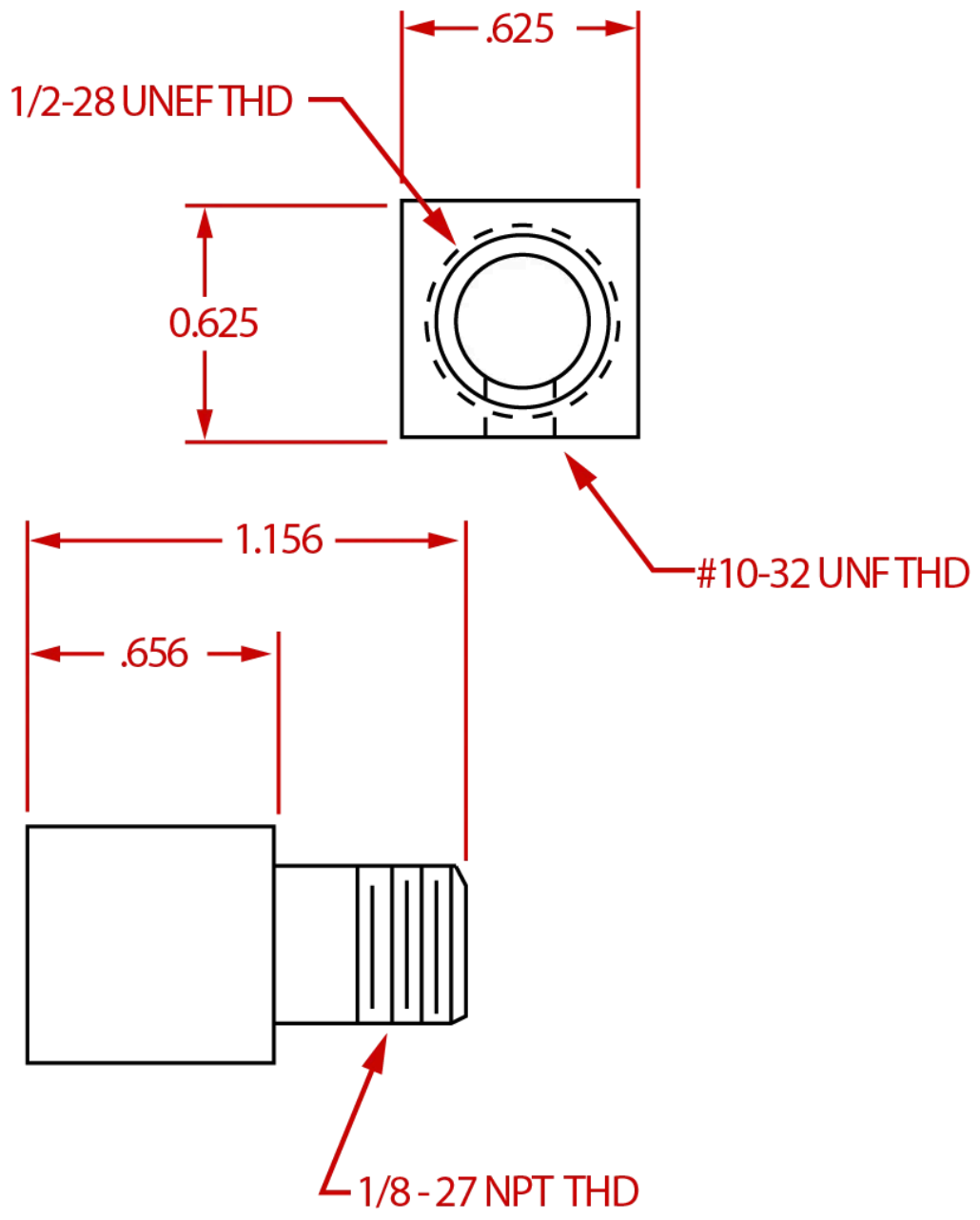




Exhaust Fitting. No Fitting



Inlet Fitting. M6 Thread



Inlet Fitting. 10-32 UNF