

BUILD YOUR OWN

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Heat Torch™ 200 Inline Air Heater

High-Capacity, Industrial-Grade Heating for Maximum Airflow Applications



The Heat Torch™ 200 from TUTCO Farnam is a 2" (50 mm) diameter inline air heater engineered to meet the most demanding airflow and thermal requirements. Designed for high-capacity industrial, laboratory, and OEM processes, the 200 delivers precise, focused heat over very large volumes of compressed air or other non-combustible gases.

Available in three heater body sizes, the Heat Torch 200 covers a broad range of power ratings:

- 5" length – 1,000–4,250 W (250 W increments)
- 9" length – 4,500–8,500 W (500 W increments)
- 13" length – 9,000–12,500 W (1,000 W increments)

With an airflow range of 9.6–100 SCFM, maximum inlet temperature of 250°F (121°C), and maximum exhaust temperature of 1,300°F (704°C), the Heat Torch 200 provides repeatable, high-volume thermal performance for demanding applications. Its stainless-steel body, UL-listed components, and flexible NPT inlet/outlet fittings ensure reliable, long-term operation in industrial environments.



MAX WATT	MAX INLET	MAX EXHAUST	MIN SCFM	MAX SCFM	PSIG*
12500 W	250° F	1300° F	9.6	100	120

Key Features & Benefits

Exceptional Airflow Capacity

Handles 9.6–100 SCFM, making it ideal for large-scale processes requiring high-volume heating.

Wide Power Range

Covers 1,000–12,500 W with multiple voltage options (single and three-phase) for flexible system integration.

Rapid Thermal Response

Efficient heating element design delivers quick heat-up and cool-down cycles for precise temperature control.

UL-Listed Components

Ensures safe and reliable operation in industrial, laboratory, and OEM environments.

Flexible Fitting Options

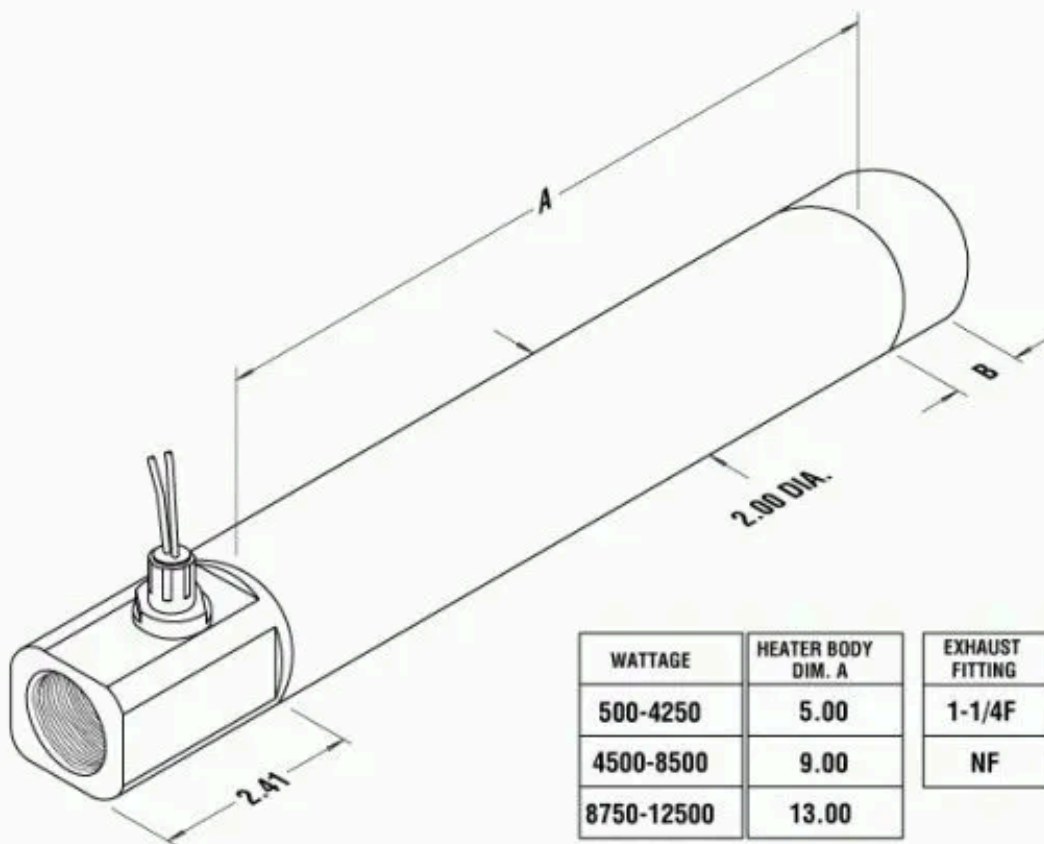
Standard 1" NPT inlet with 1-1/4" NPT outlet or no exhaust fitting provides easy integration into existing ducting or custom systems.

Optional Accessories

Thermocouple fittings, thermocouples, and flexible conduit provide enhanced temperature monitoring and process control.

Specifications

Mounting	Horizontal / Vertical
Leads	12 AWG, 12" Long
Heater Body	Stainless Steel
Air Entryway Fitting	Stainless Steel
Inlet Fitting	1" NPT Female
Exhaust Fitting	1-1/4" NPT Female or NF – No Fitting



RESOURCES



Brochures and Manuals

Heat Torch 200 Brochure
Quickstart Guide



Drawings

HT200-500-4250.PDF
HT200-4500-8500.PDF
HT200-8750-12500.PDF
HT-200-500-4250.STP
HT200-4500-8500.STP
HT200-8750-12500.STP



Videos

Heat Torch Product Demo
Process Heaters

Wattage and Voltage Options

120V, single phase, 1.0kW-2.5kW

240V, single phase, 1.0kW-8.5kW

240V, three phase, 4.5kW-12.5kW

480V, single phase, 4.5kW-12.5kW

480V, three phase, 1.5kW-12.5kW

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™ 200 is engineered for high-capacity, large-volume applications requiring precise and repeatable heating. Its large diameter and wide airflow range make it suitable for industrial, laboratory, and OEM processes where consistency, efficiency, and process reliability are critical. Typical applications include:

High-Capacity Staking and Heat Forming – Provide controlled heat for large thermoplastic components or assemblies in production environments.

Curing Coatings and Adhesives – Deliver uniform thermal energy to cure coatings, films, and adhesives over large surfaces.

Adhesive Activation – Activate heat-sensitive adhesives for packaging, assembly, or manufacturing processes.

Drying Processes – Efficiently dry parts, materials, or coatings with controlled, high-volume airflow.

Heat Shrinking – Shrink tubing, films, or wraps over large assemblies with precise temperature control.

Sterilization – Generate high-temperature airflow to sterilize equipment, instruments, or packaging.

Air Scrubbing – Support industrial or laboratory air scrubbing applications where heated airflow aids contaminant removal or gas conditioning.

Air Knives – Provide heated air for drying, cleaning, or material handling in production lines.

Semiconductor Processes & Wafer Drying – Deliver controlled, high-volume airflow for sensitive electronics manufacturing applications.

OEM and Production Line Integration – Ideal for automated or modular systems requiring high-capacity, focused heating.

Laboratory Research and Process Development – Enables repeatable thermal input for R&D, prototyping, and process optimization in high-flow setups.

The Heat Torch 200's combination of high airflow capacity, wide power options, and robust construction ensures efficient, reliable, and repeatable performance in demanding industrial processes.

Advantages Over Conventional Heaters

The Heat Torch™ 200 provides several key advantages that set it apart from traditional small air heaters and hot air tools:

Exceptional High-Volume Airflow – Handles 9.6–100 SCFM with focused heat, supporting large-scale industrial operations.

Wide Power & Voltage Flexibility – Covers 1,000–12,500 W with single- and three-phase options for diverse system integration.

Concentrated, Efficient Heating – Minimal heat loss ensures energy is delivered where needed, improving process efficiency.

Rapid Thermal Response – Quick heat-up and cool-down cycles enable precise temperature control for high-capacity applications.

Durable, Long-Life Construction – Stainless-steel body and UL-listed components withstand heavy use and thermal cycling.

Versatile Mounting & Fitting Options – Horizontal/vertical installation and multiple inlet/outlet configurations allow easy system integration.

Optional Monitoring & Control – Thermocouples, fittings, and flexible conduit enable advanced temperature measurement and control.

Minimal Maintenance Requirements – Rugged design reduces downtime, replacement costs, and overall maintenance needs.

Backed by TUTCO Farnam Expertise – Decades of engineering experience provide guidance for system integration, customization, and performance optimization.

Why Choose TUTCO Farnam Heat Torch™ 200 Heaters?

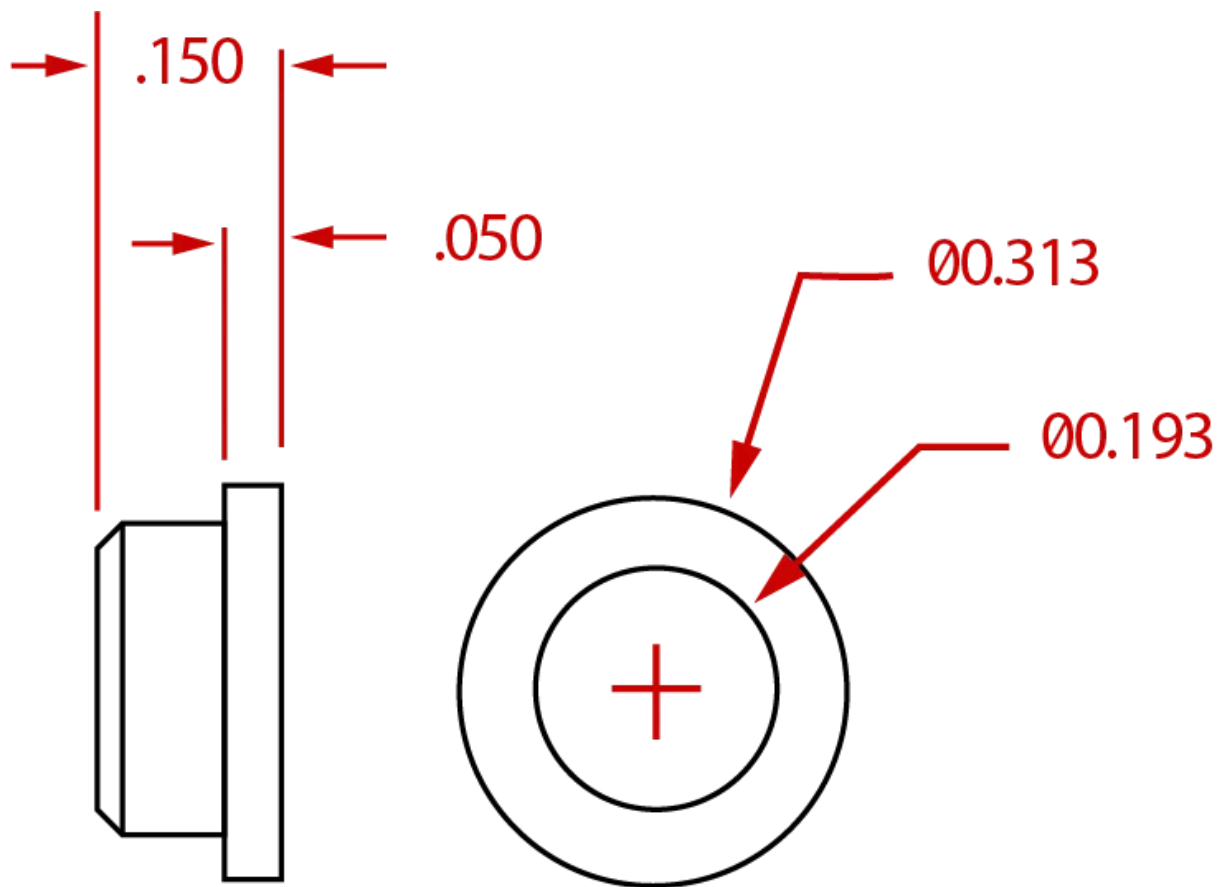
The Heat Torch™ 200 is an industrial-grade, high-capacity inline air heater capable of precise, repeatable heating at very high airflow volumes. Its stainless-steel construction, extensive power options, and flexible fittings make it ideal for laboratory, industrial, OEM, and high-volume manufacturing applications where efficiency, reliability, and performance are paramount.



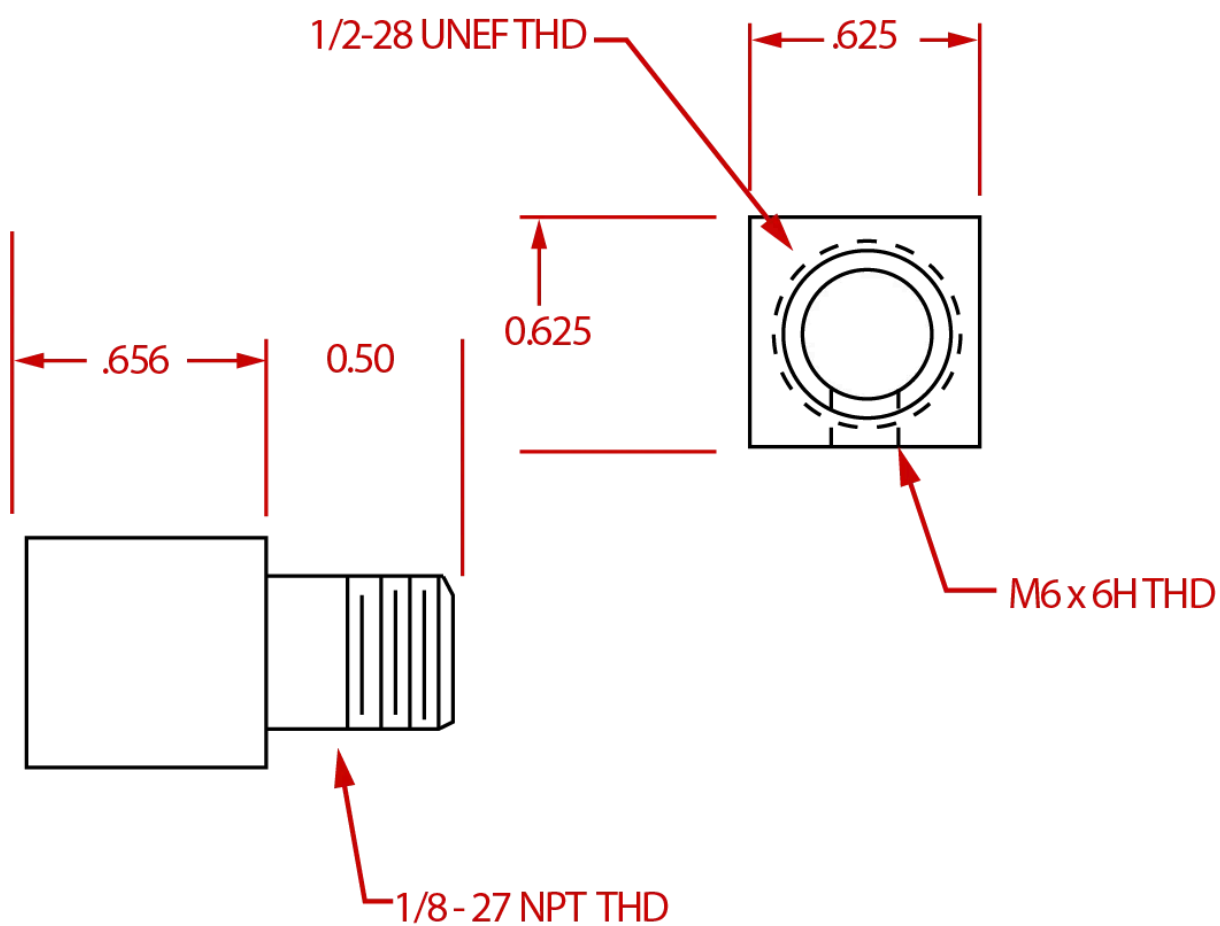
Additional Information

PRODUCT FITTINGS

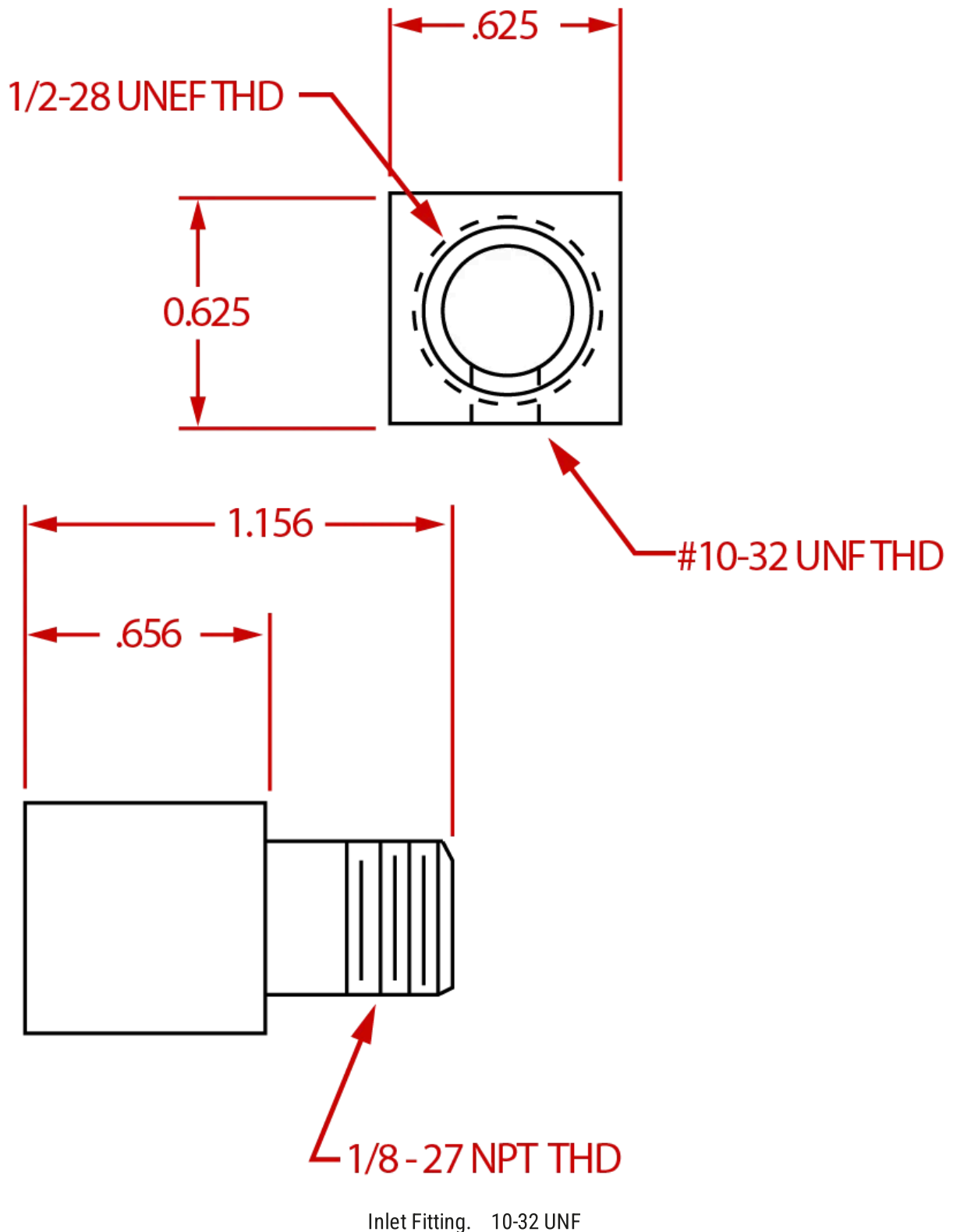
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Exhaust Fitting. No Fitting



Inlet Fitting. M6 Thread



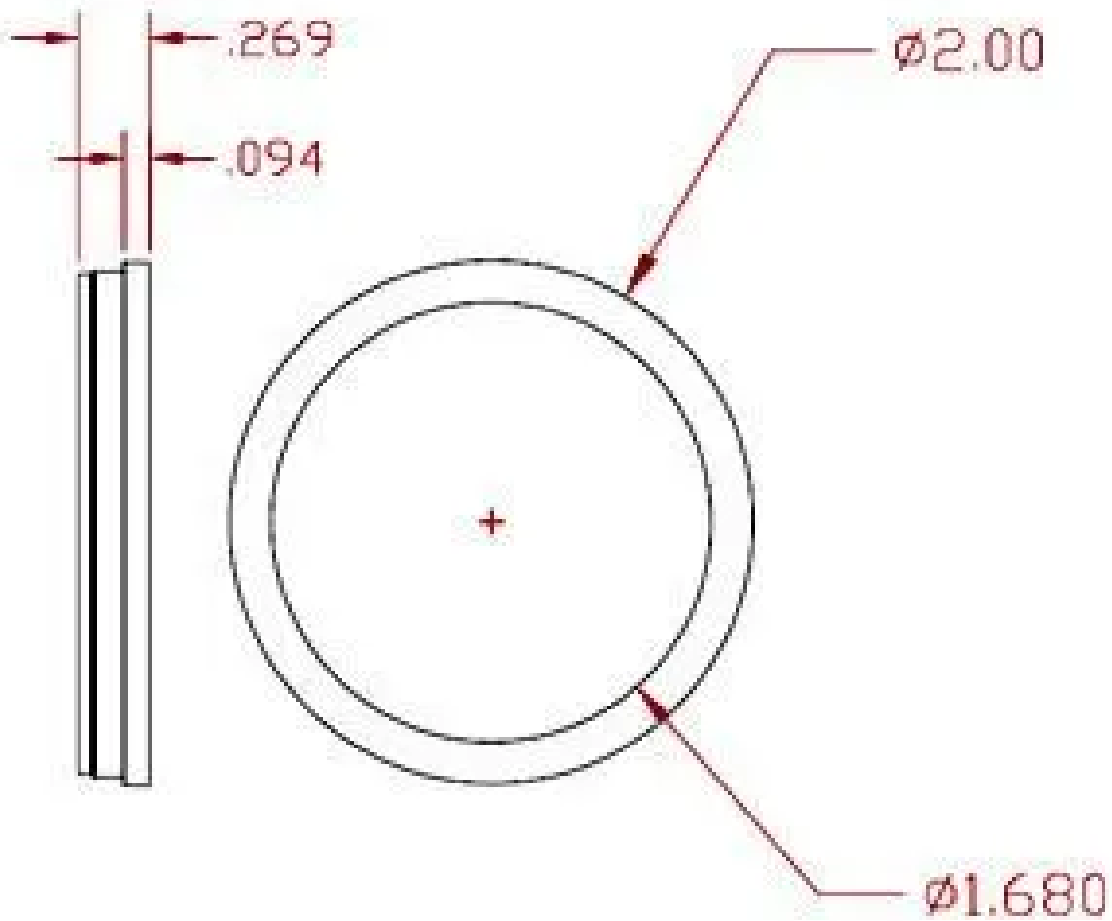
AIRFLOW PRESSURE DROP

AIRFLOW (SCFM)	500W-4250W PRESSURE DROP (PSIG)	4500W-8500W PRESSURE DROP (PSIG)	8750W-12500W PRESSURE DROP (PSIG)
10	0.4	0.7	1.1
20	0.8	1.5	2.3
30	1.7	3.4	5.1
40	3.0	6.0	9.0
50	4.7	9.4	14
60	6.8	14	20
70	9.2	18	28
80	12	24	36

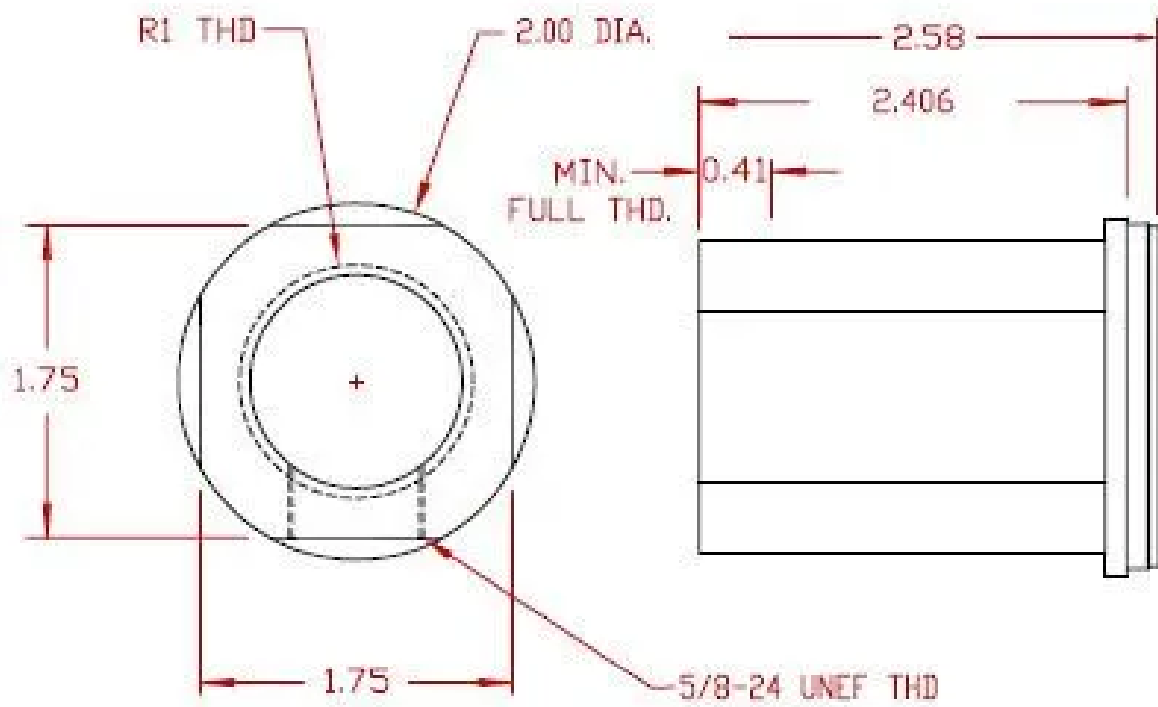
AIRFLOW (SCFM)	500W-4250W PRESSURE DROP (PSIG)	4500W-8500W PRESSURE DROP (PSIG)	8750W-12500W PRESSURE DROP (PSIG)
90	15	30	45
100	19	38	57

PRODUCT FITTINGS

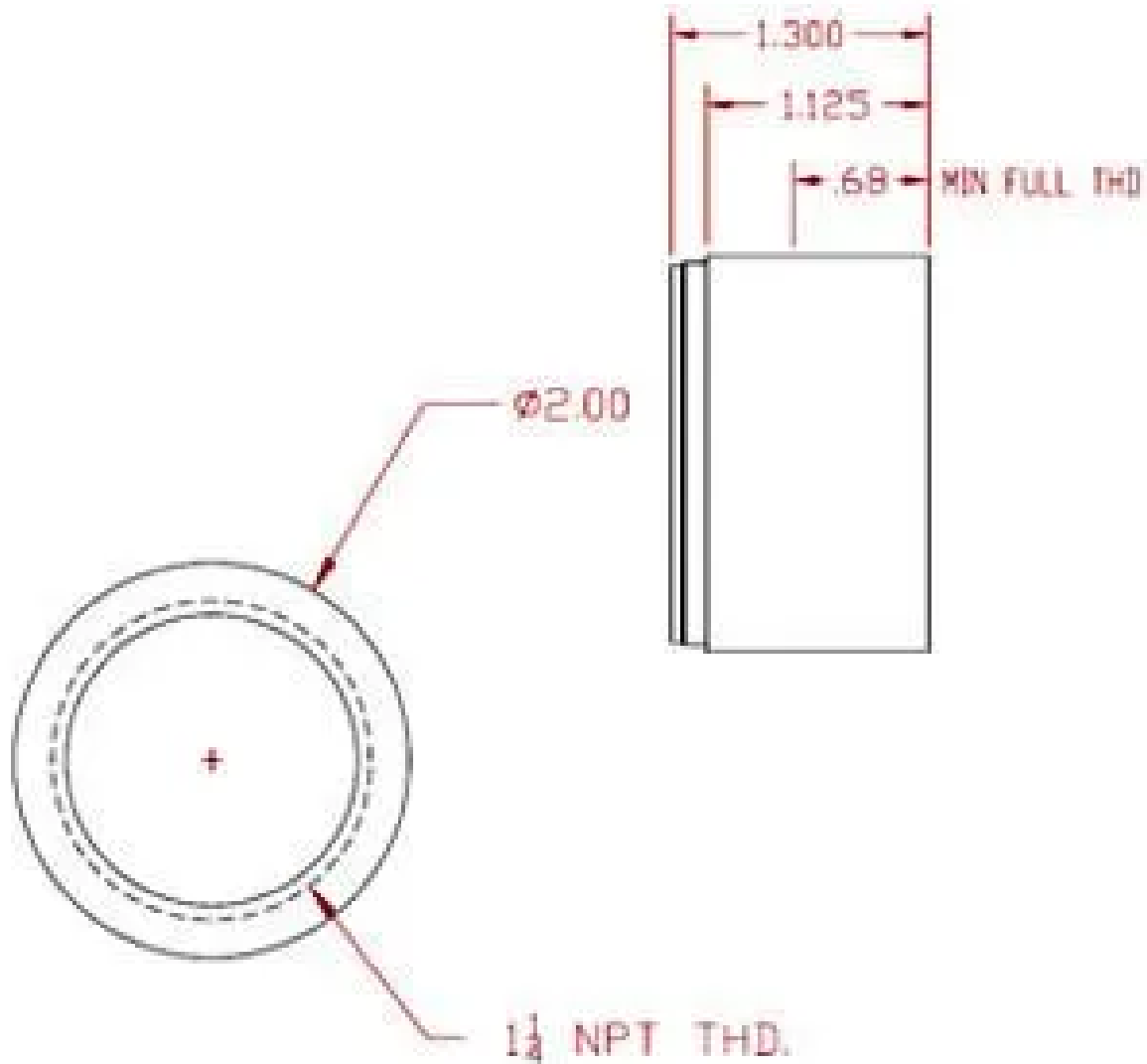
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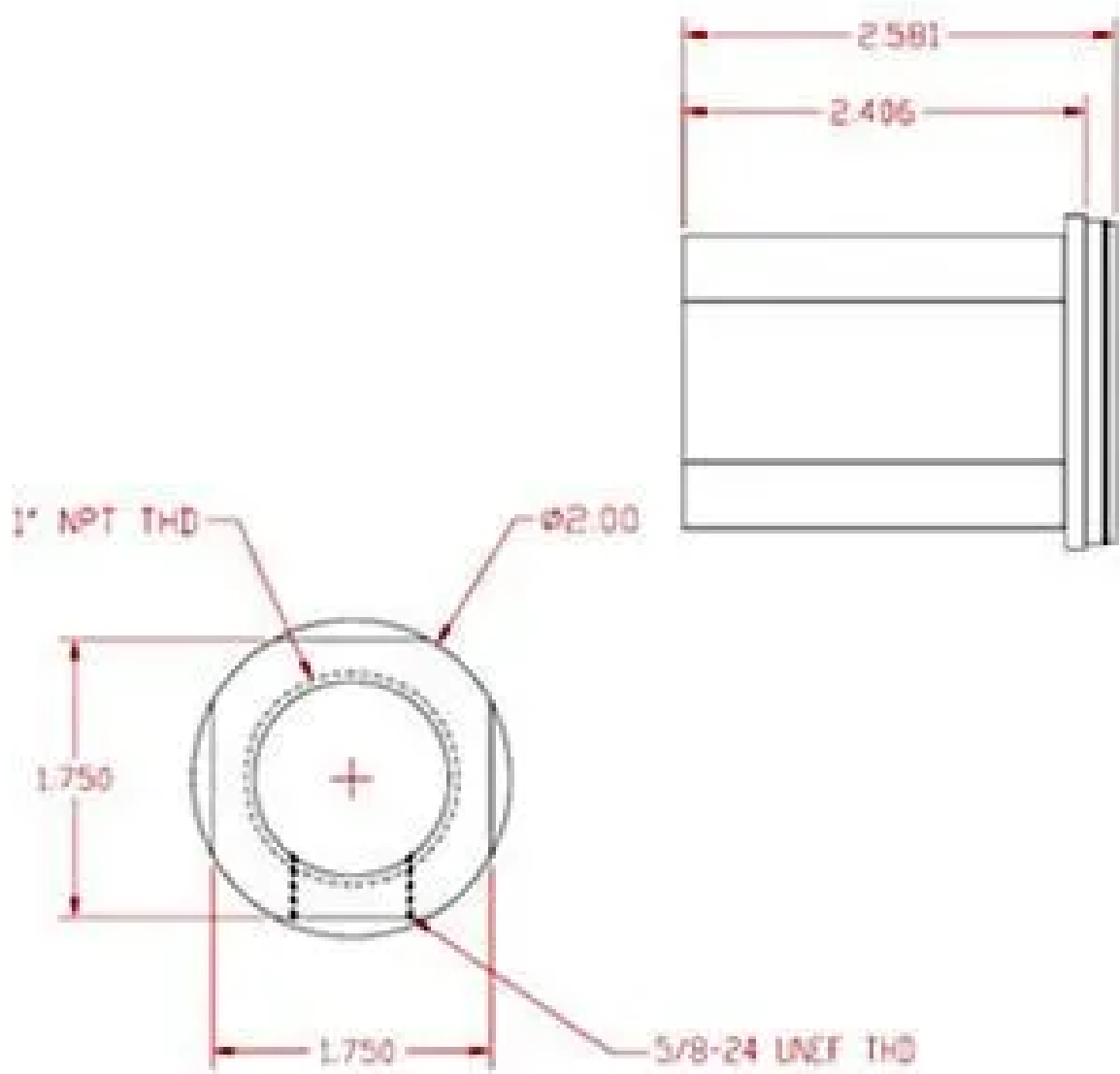
Exhaust Fitting
No Fitting



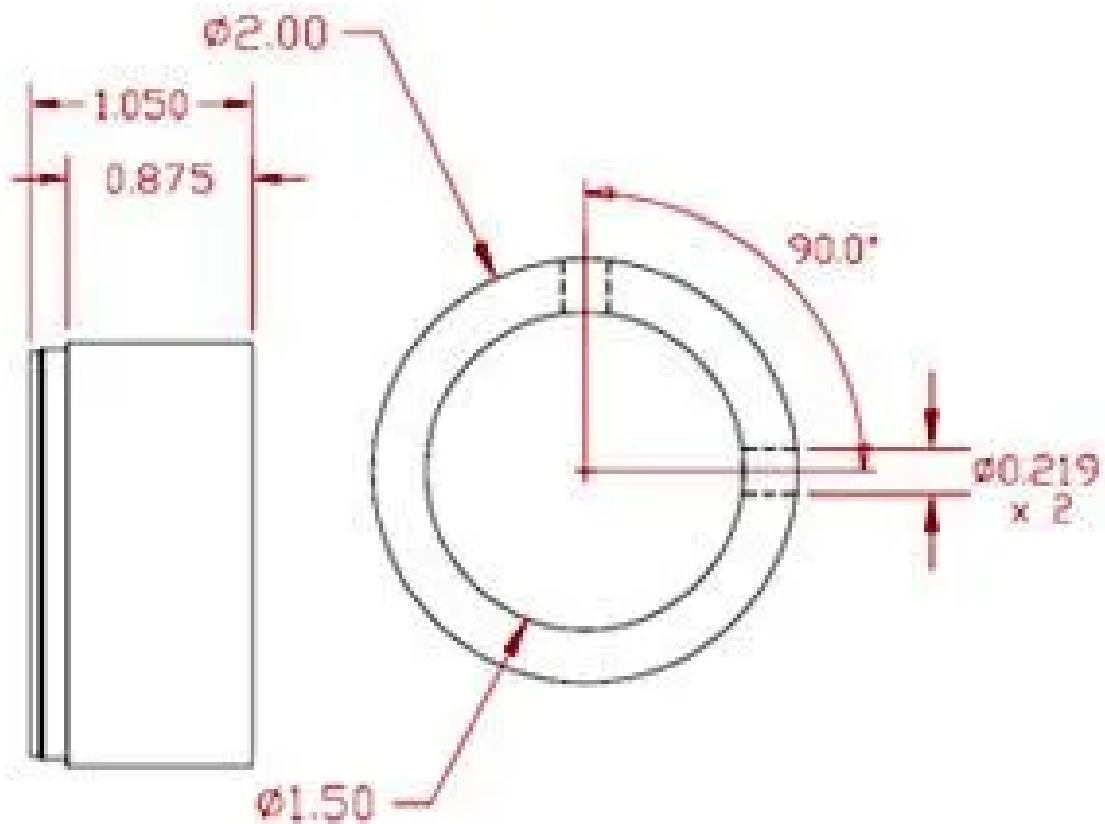
Exhaust Fitting
R1=1/4-1 1/4-11 BSPT female



Exhaust Fitting
1 1/4" NPT female



Inlet Fitting
1" NPT female



Thermocouple Fitting
2 t/c fittings with 2 t/c

Frequently Asked Questions

DOES THE HEAT TORCH 200 REQUIRE CLOSED-LOOP TEMPERATURE CONTROL? —

Closed-loop control (PID + thermocouple) is strongly recommended for high-wattage systems or applications requiring tight temperature regulation, safety, and repeatability.

WHAT SHOULD BE CONSIDERED WHEN INTEGRATING THE 200 INTO AN EXISTING AIR SYSTEM? —

Designers should evaluate pressure drop, airflow rate, blower capacity, inlet temperature, voltage availability, and whether thermocouples or monitoring components are needed for closed-loop control.

WHAT TYPES OF INDUSTRIAL APPLICATIONS IS THE HEAT TORCH 200 DESIGNED FOR? —

Ideal applications include curing, drying, adhesive activation, heat shrinking, air knives, air scrubbing, sterilization, large-scale forming, semiconductor processing, and OEM integration requiring high airflow and consistent temperatures.

HOW DO THE THREE HEATER BODY LENGTHS AFFECT PERFORMANCE? —

Longer bodies support higher wattages:

- 5" length: 1,000–4,250 W
- 9" length: 4,500–8,500 W

• 13" length: 9,000–12,500 W Longer bodies also increase heat-transfer area, improving thermal uniformity at high flow rates.	
WHAT MAKES THE HEAT TORCH™ 200 DIFFERENT FROM SMALLER HEAT TORCH MODELS?	—
The Heat Torch 200 is designed for maximum airflow and high-capacity heating, handling 9.6–100 SCFM and wattages up to 12,500 W—far exceeding the capabilities of the 030, 050, 075, and 150 models.	

Part number: HT200