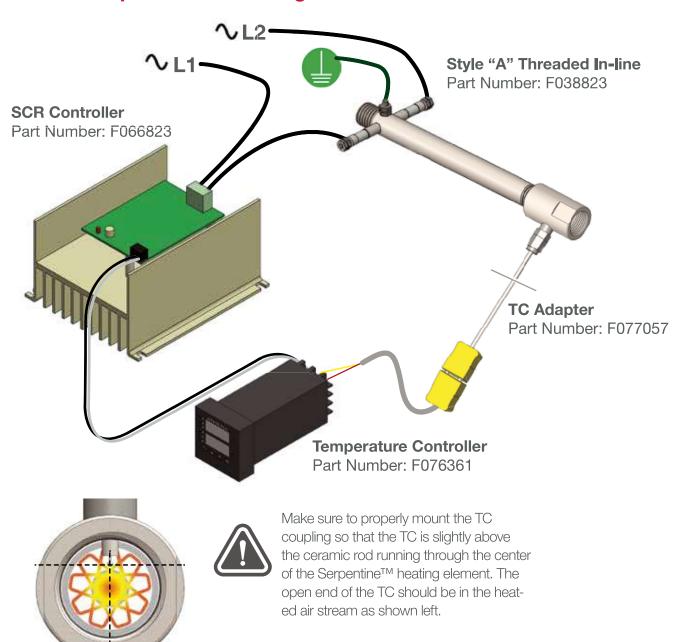
Threaded In-line Heaters

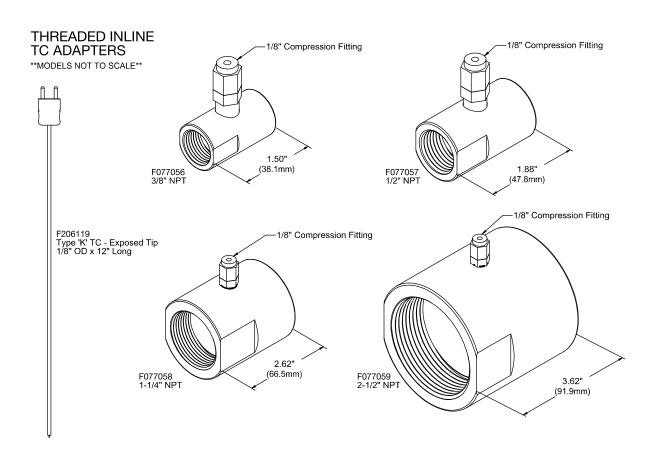
General Description

Threaded in-line air heaters are UL Recognized products designed for industrial process heating applications requiring high-heat and high air pressure. Serpentine™ heating elements are installed into a 304 stainless steel housing and threaded at both ends. Tutco SureHeat threaded in-line heaters offer two styles, Style "A" and Style "B". Style "A" should be used when an absolute leak-proof air system is required. Need a custom solution? We have supplied hundreds of customer specified variations. Contact us for more information.

Closed-Loop Connection Diagram



Threaded In-line Thermocouple Adapters



Threaded In-line Thermocouple Adapters					
Part Number	Description				
F077056	TC Adapter 3/8" Threaded In-line				
F077057	TC Adapter 1/2" Threaded In-line				
F077058	TC Adapter 1-1/4" Threaded In-line				
F077059	TC Adapter 2-1/2" Threaded In-line				
F206119	1/8" TC Type K 12" Probe				

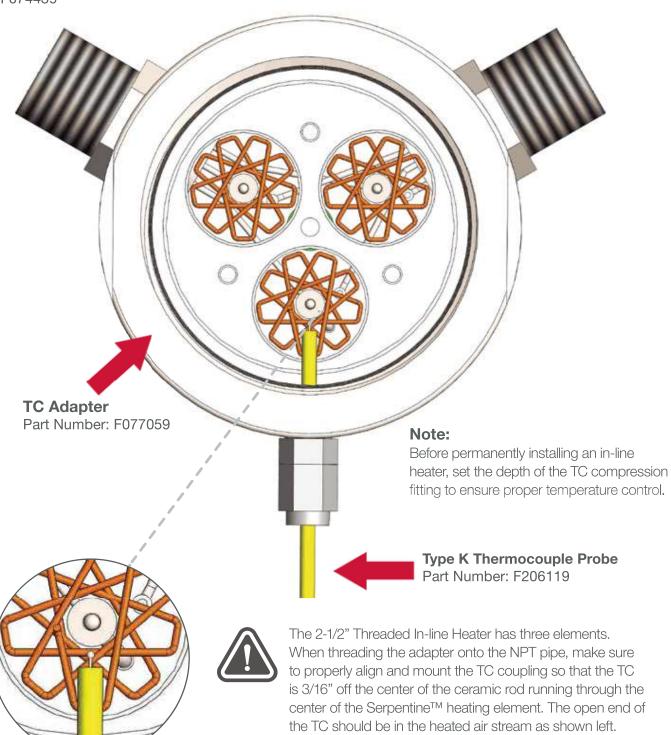


Notes:

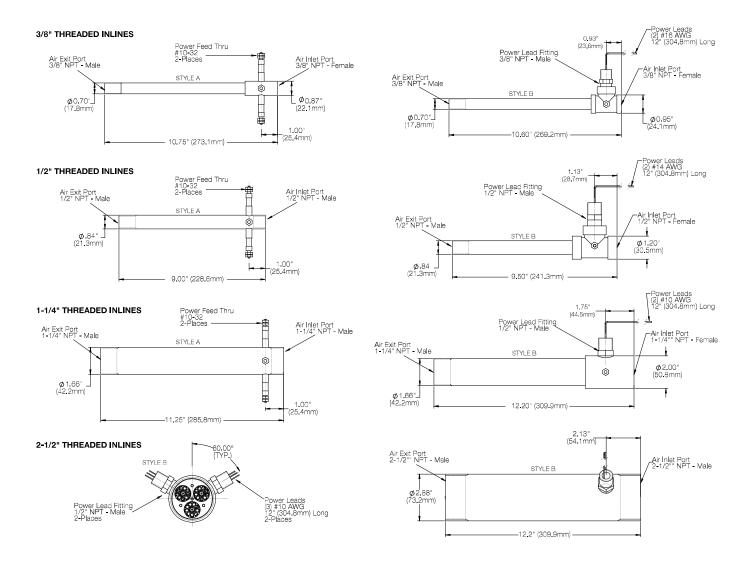
- Threaded In-line thermo couple adapter material is 316 stainless steel
- Better resistance to oxidation at higher temperatures
- Type K thermocouple F206119 sold separately
- Use of other sensor types and mounting locations can result in heater damage
- Thermocouple mounting depth location is critical. Follow all mounting instructions.
- If replacing a Thermocouple, take note of the depth by measuring the distance to the compression fitting on the old Thermocouple.

Thermocouple Installation Reference

2-1/2" NPT Threaded In-line Heater Assembly Part Number: F074439



Dimensions / Installation Reference



Threaded In-line Products							
Size (NPT)	Max. Power	Max.Volts	Max. Amps	P/N, Style "A"	P/N, Style "B"		
3/8"	1.6kW	170	9.4	F038821	F038822		
1/2"	4.0kW	220	18.2	F038823	F038824		
1-1/4"	6.0kW	220	27.3	F038825	F038826		
1-1/4"	8.0kW	240	33.3	F077065	F077028		
2-1/2"	18.0kW	240	75.0 (1ø)/44.0 (3ø)	N/A	F063007		
2-1/2"	18.0kW	480	21.7 (3ø)	N/A	F076418		
2-1/2"	24.0kW	240	100.0 (1ø)/57.8 (3ø)	N/A	F074439		

Style A / Style B Installation Reference

Style A Threaded In-line Products

- UL Recognized
- High-pressure power feed throughs
- Leak-proof to 150 psi (10 bar)
- Maximum inlet temperatures 900°F (482°C)
- Torque Specification for power connections 20 lb-in (2.26 N-m)



The inlet side of the heater is located closest to the power feed throughs. Installation orientation is critical. Positioning the heater in the wrong direction will cause damage. Like all Tutco SureHeat products, do not operate without air flow.

Style B Threaded In-line Products

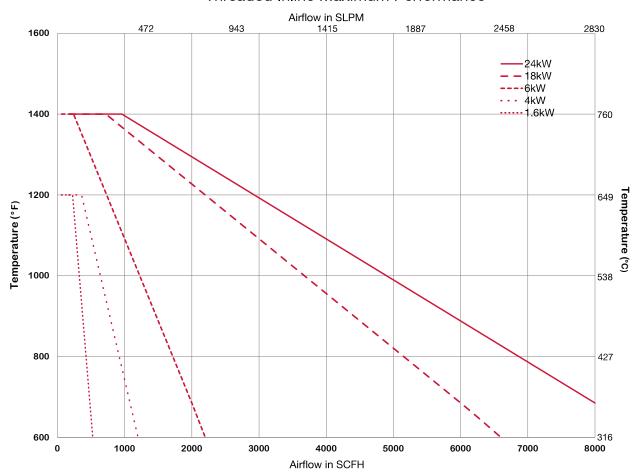
- UL Recognized
- 12" (305mm) flexible wire power leads
- Not recommended for leak-proof systems due to slight leakage through wire strands
- Maximum inlet temperatures 200°F (93°C)





Threaded In-line Performance Curves

Threaded Inline Maximum Performance



Notes:

- Temperatures are measured by 3/16" "K"
- Use of other sensor types and mounting locations can result in heater damage
- Minimum airflow for accurate control is 60 SCFH
- Maximum air temperature is 1400°F (760°C)
- Operating above this curve voids the product warranty





