

HT Threaded Inline Heaters

HT Threaded Inline

Temperatures up to 1652°F (900°C)

The HT-TIL (High-Temperature Threaded Inline) air heater for a variety of demanding applications, including fuel cell, R&D lab, automotive and aerospace testing. Capable of producing air/gas temperatures to 1652°F (900°C) versus the standard of 1382°F (750°C). This HT-TIL is a unique heater for critical applications up to 100 psi (7 Bar).



Features and Info

Style A Threaded In-line Part No. F076619

For Higher pressures and Higher inlet temperatures

- Max Exit Temperature 1652°F (900°C)
- Max Inlet Temperature 1000°F (538°C)
- Max Static Pressure 100 PSI (7 Bar)
- Inlet Fitting 1.25" MNPT (Male) thread
- Exit Fitting 1.25" MNPT (Male) thread
- TC probe included Yes – Duplex "K" Type 1/8" Dia.
- Overall Length 22" (559mm)
- Inlet Connections 0.250" Nickel terminal posts with hardware
- Ground Stud Included Yes
- Material 316 Stainless Steel
- Minimum air flow 3 SCFM (85 SLPM)

Style B Threaded In-line Part No. F076525

For Lower pressures and Lower inlet temperatures

- Max Exit Temperature 1652°F (900°C)
- Max Inlet Temperature 120°F (50°C)
- Max Static Pressure 45 PSI (3 Bar)
- Inlet Fitting 1.25" FNPT (Female) thread
- Exit Fitting 1.25" MNPT (Male) thread
- TC probe included No – customer supplied
- Overall Length 20" (508mm)
- Inlet Connections 24" long, #10AWG wires, 105°C rated
- Ground Stud Included Yes
- Material 316 Stainless Steel
- Minimum airflow 3 SCFM (85 SLPM)

Product Specifications

Maximum Static Pressure
100 PSI (10 BAR) Style "A"
45 PSI (3 BAR) Style "B"

Maximum Inlet Air Temperature
1000°F (538°C) Style "A"
120°F (50°C) Style "B"

Maximum Exit Air Temperature
1652°F (900°C)

Minimum Air Flow for Best Control
3 SCFM (85 SLPM)

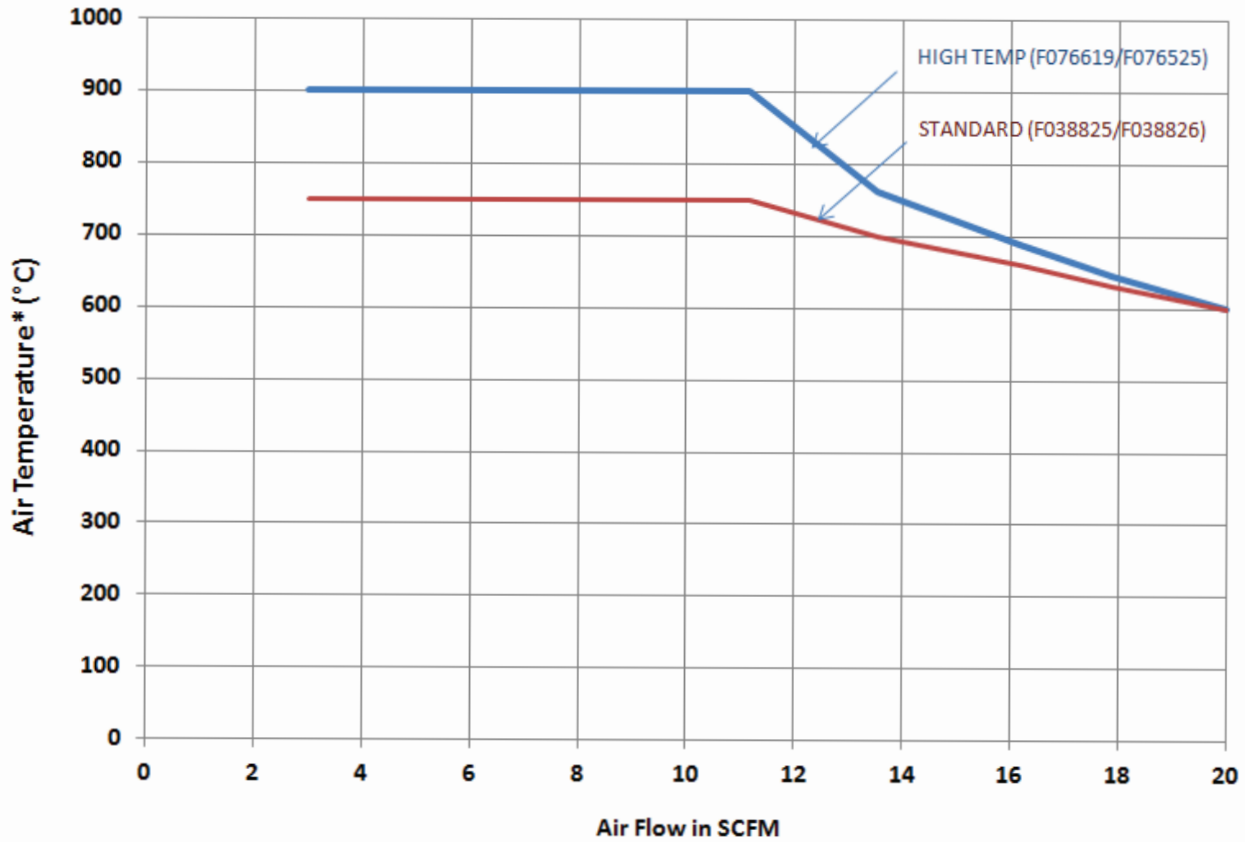
Both styles for use with air or inert gases only. Pressure drop avg. 1.6 PSI (45" water column) at 900°C & 10 SCFM

SureHeat® HT Threaded Inline Products

Model	Description	Length (mm)	OD (mm)	Watts (kW)	Voltage (V)	PH	Current (amps)	Max. Exit Temp.	Max. Inlet Temp.
F076619	1.25" HT THREADED INLINE (A)	22" (559)	1.7" (45)	6 / 8	208 / 240	1	29 / 34	1652°F (900°C)	1000°F (538°C)
F076525	1.25" HT THREADED INLINE (B)	20" (508)	1.7" (45)	6 / 8	208 / 240	1	29 / 34	1652°F (900°C)	120°F (50°C)

Performance Curves

Maximum Performance
6kW 208V Threaded Inline Heater
"High-Temp" vs. Standard Model



Notes:

- Temperatures are measured by internal 'K' T/C sensors. Use of other sensor types and / or locations can result in heater damage.
- Minimum airflow for accurate control is 3 SCFM (85 SLPM)
- Maximum air temperature is 1400°F (760°C) with supplied "K" T/C. Operating above this curve will void the product warranty.