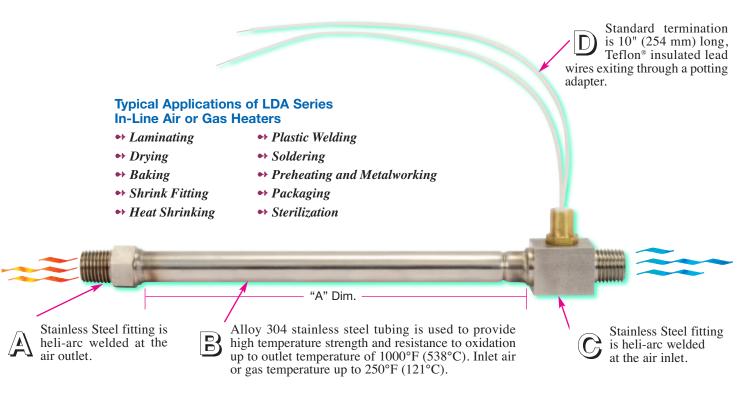
Industrial Process Heaters





LDA In-Line Forced Air & Gas Heating — Stainless Steel Inlet Fitting



LDA In-Line Air Process Heater Specifications

Heater Diameter (in) Maximum Amperage		Cross Sectional Flow Area (in ²)	Maximum SCFM (ft ³)	Maximum Wattage/Linear Inch Of Heated Length			
3/8	6	.030	8	200			
1/2	8	.040	10	250			
3/4	15	.120	20	500			

Heater Selection

To ensure maximum heater life, heater wattage must be calculated so that it is suitable for the desired air flow. To calculate wattage, determine the air flow and temperature rise required. The following relationship can be used to determine the wattage.

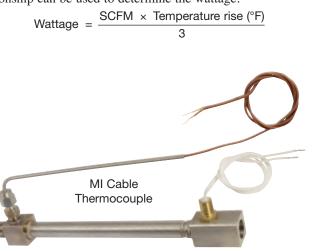


Table below shows the relationship between standard cubic feet per minute versus maximum watts per linear inch of heated length on different heater diameters.

SCFM	Maximum Watts per Linear Inch of Heated Length 3/8" Dia. 1/2" Dia. 3/4" Dia.						
2	80	80	120				
4	100	100	120				
6	150	150	150				
8	200	200	200				
10	—	250	250				
15	_	_	375				
20	—	—	500				



Air heaters must always have air flowing through them and must operate in a horizontal position to balance the internal resistance coil. Air Heaters can be made in any practical length. These sizes can be adapted with many types of fittings.

View Product Inventory @ www.tempco.com

Industrial Process Heaters Air Process Heaters Since 1972 LDA In-Line Forced Air & Gas Heating — Stainless Steel Inlet Fitting Teflon[®] Leads 1/2" Three Pins Male Insert 1/2" Counterbore "A" "A" Counterbore Standard (Non-Stock) In-Line Air Process Heaters "A" Diameter Watts Volts Connection Part Number in (mm) .500 5½ 139.7 400 120 3 Pins Male Insert LDA00194 .500 5½ 139.7 400 240 3 Pins Male Insert LDA00196 .500 51/2 139.7 600 120 3 Pins Male Insert LDA00197 .500 139.7 3 Pins Male Insert LDA00198 51/2 600 240 5½ 139.7 120 36" Leads LDA00195 .500 400 .500 5½ 139.7 400 240 36" Leads LDA00199 5½ 36" Leads .500 139.7 600 120 LDA00200 .500 5½ 139.7 600 240 36" Leads LDA00201 **Optional Features** * Other wattages and voltages * Other diameters or lengths * 1/8", 1/4", and 3/8" NPT male or female threads are available for the inlet and outlet fittings **Oil Resistant** * External MI cable thermocouple Cord * Other custom made fittings or flanges * S/S cable or braid for lead wire protection * SJO cord Copper Tee with Built-in Thermocouple Copper Tee

Ordering Information Custom Engineered/Manufactured Heaters For sizes and ratings not listed, **TEMPCO** will design and manufacture an LDA In-Line heater to meet your requirements. **Please Specify** the following: **Catalog Heaters** Order by Part Number for catalog Optional Thermocouple Diameter heaters. Pressure □ Inlet-Outlet size and type Standard lead time is 2-3 weeks. □ "A" Dimension **Exit** Temperature Lead Lengths and Type Special Requirements □ Wattage and Voltage

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Industrial Process Heaters

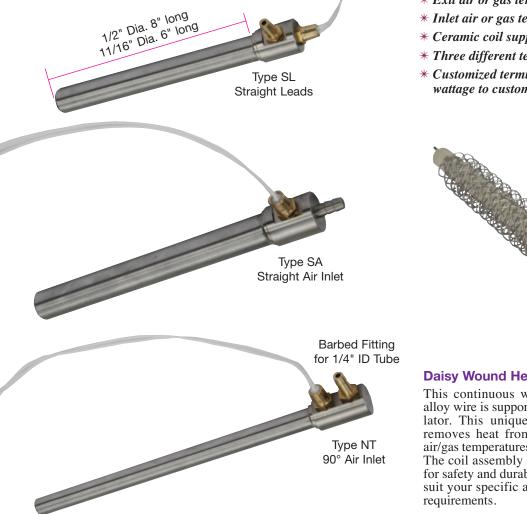
Air Process Heaters



HAC In-Line Forced Air Process Heaters



- * Two standard sizes: 1/2 " diameter $\times 8$ " long, *11/16*" *diameter* × 6" *long*
- * 304 Stainless Steel sheath
- * 120 Volt only
- * Exit air or gas temperature up to $1400^{\circ}F(760^{\circ}C)$
- * Inlet air or gas temperature up to $250^{\circ}F(121^{\circ}C)$
- * Ceramic coil support and insulator
- * Three different terminations
- * Customized termination, inlet, outlet, and wattage to customer specification available



Daisy Wound Heating Element

This continuous wound heavy gauge high temperature alloy wire is supported on a custom designed ceramic insulator. This unique coil design rapidly and efficiently removes heat from the resistor wire to achieve higher air/gas temperatures than conventional coil wound designs. The coil assembly is enclosed a in stainless steel housing for safety and durability. Termination can be customized to suit your specific application. Consult Tempco with your

Standard (Non-Stock) 120V In-Line Air Process Heaters

Heaters have 12" Teflon® leads standard, and the air inlet is a barbed fitting for a 1/4" ID tube.

(Termination Type	325W		neter, 120V er Length 500W	600W	11/16" Diameter, 120V 6" Heater Length 500W 600W		
	SA	HAC00001	HAC00004	HAC00007	HAC00010	HAC00013	HAC00016	
	SL	HAC00002	HAC00005	HAC00008	HAC00011	HAC00014	HAC00017	
	NT	HAC00003	HAC00006	HAC00009	HAC00012	HAC00015	HAC00018	



Air heaters must always have air flowing through them and should preferably be operated in a horizontal position. Use clean air.

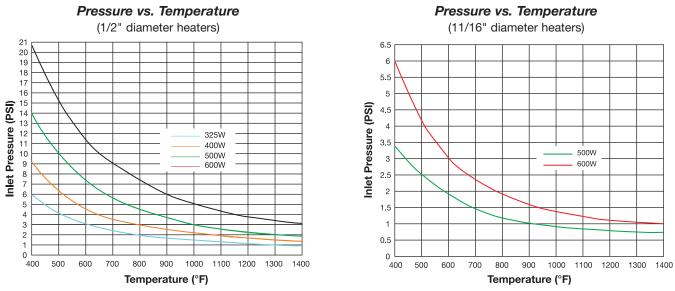
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Industrial Process Heaters



HAC In-Line Air Process Heaters

Since 1972



Exit air temperature depends on heater wattage and air flow rate. The above charts show exit air temperature at various inlet air pressures and wattages on 1/2" and 11/16" OD heaters.

Linear Air Pumps for HAC In-Line Air Process Heaters

(Data below is for Pump Part Number PMP-101-101)

Design Features

** High Efficiency* Quiet Operation*

* Low Vibration * UL Component Recognition



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The above chart shows the time for the exit air temperature to reach steady state condition at 1.1 CFM using Tempco's air pump.

Pump Data (Part Number PMP-101-101) Head Configuration: Pressure Flow @ 115V/60 Pressure: CFM@PSI LPM@BAR PSI CFM LPM Watts bar Amps 0 0 1.1 31.1 0.23 15 1 .1 0.62 10.5 0.23 12 2 .2 0.09 0.24 9 2.0 PSI Max. Continuous Pressure: 0.14 bar Max. Intermittent Pressure: 2.32 PSI 0.16 bar

HAC In-Line heaters can be connected to your air supply lines with an air pressure regulator. For self-contained units, Tempco air pumps can be directly connected to HAC In-Line process heaters. The pump comes with a 12" rubber hose for easy connection to the heater inlet.

(800) 323-6859 • Email: sales@tempco.com