

AIR DUCT HEATERS

ADH SERIES

SPECIFICATIONS

- 6 to 84 kW and higher
- Process temperatures to 1200°F
- 240 or 480 volt standard with custom designs to 600 volts
- Stainless steel elements
- NEMA 4/12 terminal housing

DESCRIPTION

Air duct heaters are available in standard and custom designs. The duct heater can be installed vertically or horizontally into a rectangular or square duct. Transition sections for circular or small ducts are available. The duct heater consists of stainless steel tubular elements welded into a steel mounting flange. The elements are staggered at a 30° angle to the direction of the air flow which generates turbulent flow and maximizes heat transfer. A stainless steel baffle provides additional support for the heating elements. The standard terminal housing is NEMA 4/12. High temperature units have a stainless steel mounting flange and high temperature insulation under-the-flange. Air duct heaters are available in a wide range of kW sizes, construction designs, NEMA ratings, controls and other options as listed on the back page.



FEATURES

- Seal welded elements prevent process gases from leaking into the terminal housing
- Stainless steel baffle provides support
- Designed for extended heater life by using low watt density elements and a staggered element pattern
- Available with an explosion resistant enclosure
- High temperature designs with under-the-flange insulation are available

APPLICATIONS

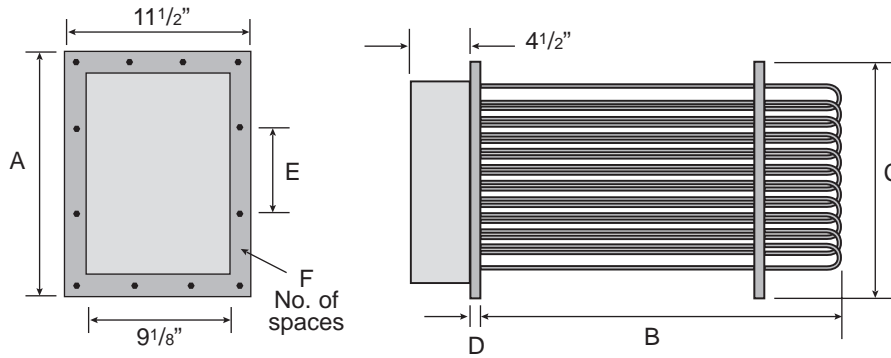
- PROCESS GAS HEATING
- HEAT TREATING
- AIR PRE-HEATING
- PAINT DRYING AND CURING
- DRYING OVENS
- DEHUMIDIFICATION



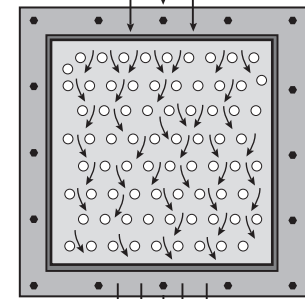
HEAT EXCHANGE AND TRANSFER, INC.

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STANDARD MODELS



Staggered Air Flow Pattern

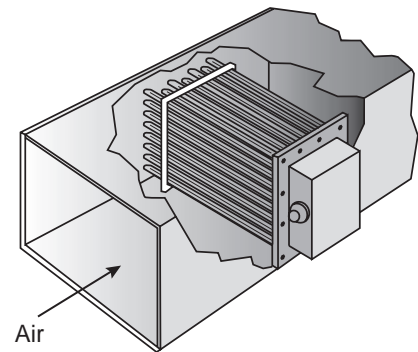


Maximum Heat-To-Air Transfer

All HEAT, Inc. duct heaters are built to order. If one of the below standard models does not meet the needs of your application, a custom configuration can be designed and fabricated.

kW	Dimensions						Model Numbers	
	A	B	C	D	E	F	240V, 3 Phase	480V, 3 Phase
6	6	20	3 1/2	1/4	2 1/2	2	ADH-06-243	ADH-06-483
12	8	20	5 1/2	1/4	3 1/2	2	ADH-12-243	ADH-12-483
18	10	20	7 1/2	1/4	3	3	ADH-18-243	ADH-18-483
24	12	20	9 1/2	3/8	2 3/4	4	ADH-24-243	ADH-24-483
30	14	20	11 1/2	3/8	3 1/4	4	ADH-30-243	ADH-30-483
36	16	20	13 1/2	3/8	3 3/4	4	ADH-36-243	ADH-36-483
42	18	20	15 1/2	3/8	4 1/4	4	ADH-42-243	ADH-42-483
48	20	20	17 1/2	3/8	4 3/4	4	ADH-48-243	ADH-48-483
54	22	20	19 1/2	3/8	5 1/4	4	ADH-54-243	ADH-54-483
60	24	20	21 1/2	3/8	5 3/4	4	ADH-60-243	ADH-60-483
66	26	20	23 1/2	3/8	5	5		ADH-66-483
72	28	20	25 1/2	3/8	5 3/8	5		ADH-72-483
78	30	20	27 1/2	3/8	5 3/4	5		ADH-78-483
84	32	20	29 1/2	3/8	5 1/8	6		ADH-84-483

TYPICAL INSTALLATION



OPTIONS

- HAZARDOUS AREA DESIGN** The heater terminal housing can be explosion resistant for use in: Class I, Groups C & D, Division 1 & 2; Class II, Groups E, F & G, Division 1 & 2; Class III, Division 1 & 2 hazardous areas.
- DUCT TRANSITION SECTION** A duct transition section or adaptor can be designed and built to fit a circular or small duct.
- CONSTRUCTION MATERIALS** All parts can be constructed from various grades of stainless steel and other corrosion resistant materials.
- CUSTOM DESIGNS AND PACKAGES** Many custom designs are available including a complete skid mounted duct heater package with blower and control center. Contact us to review your special requirements.
- THERMOCOUPLE PROBE** A thermocouple probe can be installed for a high limit control and/or the temperature controller.
- CONTROL CENTER** A complete control center designed to be compatible with the heater can be shipped as a separate item. Refer to Sales Bulletin CC for additional information on control centers.
- HIGH TEMPERATURE CONSTRUCTION** Insulation is installed below the terminal housing for high temperature operation (above 550°F).

