

ADH

High Temperature Air Duct Heaters

- 5 - 270 kW
- 480 Volt, Three Phase (Up to 600V Available)
- INCOLOY® Sheath Elements
- 30 W/In²
- 800°F Max. Outlet Air Temp.

Type ADH

Construction

Rugged Construction Elements — Sturdy 0.475" diameter INCOLOY® sheath tubular elements are mounted to a heavy 1/4 or 3/8" thick steel flange. Element fasteners allow for easy replacement.

Corrosion-Resistant Terminal Enclosure — The element terminal enclosure is made of 16 gauge high-temperature, corrosion-resistant steel and includes 1" thick high-temperature insulation to minimize temperatures in the wiring area.

Wiring Box — The 16 gauge wiring box encloses individual terminal blocks for each circuit. Threaded stud type terminals are provided to permit quick positive attachment of circuit wiring conductors.

Mounting

All Heaters can be mounted in any position; top, side or bottom entry. In high ambient temperature operations, least corrosive action and least oxidation to the terminals will occur if heaters are mounted with terminals in the coolest possible ambient, usually on bottom or side of duct. Minimum duct size is A or L dimension plus 3/8" and B dimension plus 1-5/8".

Application & Selection Guidelines

Maximum Work Temperatures — Type ADH heaters can generally be used at the following maximum temperatures, provided the minimum air velocity is maintained uniformly through the heater.

Air Velocity (Ft./Sec.)	Max. Outlet Air Temp. (°F)
4 - 36	800

Note — Maximum temperatures are based on 30 W/In². If elements have a lower watt density, work temperature may be increased; if watt density is higher, work temperature should be lower.

Note — An airflow type switch or other device is recommended to protect against loss of airflow.

Note — See Allowable Watt Density & Heater Selection Graphs in the Technical section of this catalog.

Basic Model				Includes Thermocouple			Includes Gas Tight Fittings			Includes Thermocouple & Ftgs.		
Volts KW Phase	Model	PCN	SS	Model	PCN	SS	Model	PCN	SS	Model	PCN	SS
240V 5KW 1PH	ADH-005	210673	AS	ADH-005T	214770	AS	ADH-005F	215212	AS	ADH-005FT	215634	AS
240V 5KW 3PH	ADH-005	210681	AS	ADH-005T	214789	AS	ADH-005F	215220	AS	ADH-005FT	215642	AS
480V 5KW 1PH	ADH-005	210690	AS	ADH-005T	214797	AS	ADH-005F	215239	AS	ADH-005FT	215650	AS
480V 5KW 3PH	ADH-005	210016	AS	ADH-005T	214800	AS	ADH-005F	215247	AS	ADH-005FT	215669	AS
240V 10KW 1PH	ADH-010	210702	AS	ADH-010T	214818	AS	ADH-010F	215255	AS	ADH-010FT	215677	AS
240V 10KW 3PH	ADH-010	210710	AS	ADH-010T	214826	AS	ADH-010F	215263	AS	ADH-010FT	215685	AS
480V 10KW 1PH	ADH-010	210729	AS	ADH-010T	214834	AS	ADH-010F	215271	AS	ADH-010FT	215693	AS
480V 10KW 3PH	ADH-010	210024	AS	ADH-010T	214842	AS	ADH-010F	215280	AS	ADH-010FT	215706	AS
240V 15KW 1PH	ADH-015	210737	AS	ADH-015T	214850	AS	ADH-015F	215298	AS	ADH-015FT	215714	AS
240V 15KW 3PH	ADH-015	210745	AS	ADH-015T	214869	AS	ADH-015F	215300	AS	ADH-015FT	215722	AS
480V 15KW 1PH	ADH-015	210753	AS	ADH-015T	214877	AS	ADH-015F	215319	AS	ADH-015FT	215730	AS
480V 15KW 3PH	ADH-015	210032	AS	ADH-015T	214885	AS	ADH-015F	215327	AS	ADH-015FT	215749	AS
240V 20KW 1PH	ADH-020	210761	AS	ADH-020T	214893	AS	ADH-020F	215335	AS	ADH-020FT	215757	AS
240V 20KW 3PH	ADH-020	210788	AS	ADH-020T	214906	AS	ADH-020F	215343	AS	ADH-020FT	215765	AS
480V 20KW 1PH	ADH-020	210796	AS	ADH-020T	214914	AS	ADH-020F	215351	AS	ADH-020FT	215773	AS
480V 20KW 3PH	ADH-020	210040	ST	ADH-020T	214922	AS	ADH-020F	215360	AS	ADH-020FT	215781	AS
240V 25KW 1PH	ADH-025	210809	ST	ADH-025T	214930	AS	ADH-025F	215378	AS	ADH-025FT	215790	AS
240V 25KW 3PH	ADH-025	210817	AS	ADH-025T	214949	AS	ADH-025F	215386	AS	ADH-025FT	215802	AS
480V 25KW 1PH	ADH-025	210825	AS	ADH-025T	214957	AS	ADH-025F	215394	AS	ADH-025FT	215810	AS
480V 25KW 3PH	ADH-025	210059	AS	ADH-025T	214965	AS	ADH-025F	215407	AS	ADH-025FT	215829	AS
240V 30KW 1PH	ADH-030	210833	AS	ADH-030T	214973	AS	ADH-030F	215415	AS	ADH-030FT	215837	AS
240V 30KW 3PH	ADH-030	210841	AS	ADH-030T	214981	AS	ADH-030F	215423	AS	ADH-030FT	215845	AS
480V 30KW 1PH	ADH-030	210850	AS	ADH-030T	214990	AS	ADH-030F	215431	AS	ADH-030FT	215855	AS
480V 30KW 3PH	ADH-030	210067	AS	ADH-030T	215001	AS	ADH-030F	215440	AS	ADH-030FT	215861	AS
240V 35KW 3PH	ADH-035	210868	AS	ADH-035T	215036	AS	ADH-035F	215458	AS	ADH-035FT	215870	AS
480V 35KW 1PH	ADH-035	210876	AS	ADH-035T	215044	AS	ADH-035F	215466	AS	ADH-035FT	215888	AS
480V 35KW 3PH	ADH-035	210075	AS	ADH-035T	215052	AS	ADH-035F	215474	AS	ADH-035FT	215896	AS
240V 40KW 3PH	ADH-040	210884	AS	ADH-040T	215060	AS	ADH-040F	215482	AS	ADH-040FT	215909	AS
480V 40KW 1PH	ADH-040	210892	AS	ADH-040T	215079	AS	ADH-040F	215490	AS	ADH-040FT	215917	AS
480V 40KW 3PH	ADH-040	210083	AS	ADH-040T	215087	AS	ADH-040F	215503	AS	ADH-040FT	215925	AS
240V 45KW 3PH	ADH-045	210905	AS	ADH-045T	215095	AS	ADH-045F	215511	AS	ADH-045FT	215933	AS
480V 45KW 1PH	ADH-045	210913	AS	ADH-045T	215108	AS	ADH-045F	215520	AS	ADH-045FT	215941	AS
480V 45KW 3PH	ADH-045	210091	AS	ADH-045T	215116	AS	ADH-045F	215538	AS	ADH-045FT	215950	AS
240V 50KW 3PH	ADH-050	210921	AS	ADH-050T	215124	AS	ADH-050F	215546	AS	ADH-050FT	215968	AS
480V 50KW 1PH	ADH-050	210930	AS	ADH-050T	215132	AS	ADH-050F	215554	AS	ADH-050FT	215976	AS
480V 50KW 3PH	ADH-050	210104	AS	ADH-050T	215140	AS	ADH-050F	215562	AS	ADH-050FT	215984	AS
480V 60KW 3PH	ADH-060	210112	AS	ADH-060T	215159	AS	ADH-060F	215570	AS	ADH-060FT	215992	AS
480V 70KW 3PH	ADH-070	210948	AS	ADH-070T	215167	AS	ADH-070F	215589	AS	ADH-070FT	216004	AS
480V 80KW 3PH	ADH-080	210120	AS	ADH-080T	215175	AS	ADH-080F	215597	AS	ADH-080FT	216100	AS
480V 90KW 3PH	ADH-090	210139	AS	ADH-090T	215183	AS	ADH-090F	215600	AS	ADH-090FT	216119	AS
480V 100KW 3PH	ADH-100	210147	AS	ADH-100T	215191	AS	ADH-100F	215618	AS	ADH-100FT	216127	AS
480V 126KW 3PH	ADH-126	210956	AS	ADH-126T	215204	AS	ADH-126F	215626	AS	ADH-126FT	216135	AS
480V 144KW 3PH	ADH-144	210155	AS	ADH-144T	216936	AS	ADH-144F	216952	AS	ADH-144FT	216143	AS
480V 162KW 3PH	ADH-162	210163	AS	ADH-162T	216944	AS	ADH-162F	216960	AS	ADH-162FT	216151	AS
480V 216KW 3PH							ADH-216F	210171	AS	ADH-216FT	216928	AS
480V 270KW 3PH							ADH-270F	210180	AS	ADH-270FT	216160	AS

Stock Status: S = stock AS = assembly stock NS = non-stock
To Order—Specify model, PCN, kW and quantity.