

ADH High Temperature Air Duct Heaters

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

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

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