

CXH-A

Explosion Proof Blower Heater for Hazardous Locations



- 3 - 35 kW
- 10,200 - 119,420 Btuh
- 208 to 600 Volts
- 1 or 3 Phase
- Meets NEC, OSHA and UL Requirements
- ATEX and GOST Models Available

Description

Type CXH-A is designed to heat areas classified as hazardous locations to provide primary or supplementary heating for comfort or freeze protection.

Applications

- Sewage Treatment Plants
- Petrochemical Facilities, Oil Rigs
- Unattended Pumping Stations
- Chemical Storage and Handling Facilities
- Paint Storage Areas
- Grain Elevators
- Coal Preparation Plants
- Aircraft Servicing Areas
- Oil Refineries
- Areas Containing Metal Dusts

Construction

Cabinet — 14 gauge steel construction with polyester powder coat paint finish.

Adjustable Louvers — Control the direction of airflow as needed.

Rugged, Seamless, Copper Heating Elements — are immersed in the sealed liquid-to-air heat exchanger.

Factory Sealed Heat Exchanger — Features steel tubes with integral aluminum fins and filled with glycol-water heat transfer fluid.

Safety Pressure Relief Device on the heat exchanger is factory helium leak tested to assure a leak-proof design.

Explosion Proof Ball Bearing Motor — Permanently lubricated and equipped with built-in thermal overload protection.

Epoxy Coated Aluminum Fan — Prevents sparking.

Features

Pre-Wired Explosion Proof Control Center with magnetic contactor and control circuit transformer.

Quick-Acting Auto Reset Cutout

Pole, Wall and Ceiling Mounting Kits — Optional. Recessed threaded fasteners on top of heater for mounting with threaded rods.

Warranty — Limited Three Year

Optional Features

- Built-in Thermostat 50°F to 90°F (10°C to 32°C)
- Built-in Manual Disconnect Switch
- Pilot Light
- Fan Selector Switch

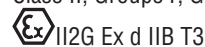
Designed for Areas Classified

Low operating temperature for atmospheres having an ignition temperature higher than 165°C (329°F) code T3B.

- Class I, Group C, D - Divisions 1 & 2
- Class II, Groups E, F, G - Divisions 1 & 2

Optional Classifications

- Temperature Code T3C 160°C (320°F)
Class I, Groups C, D - Divisions 1 & 2
Class II, Groups F, G - Divisions 1 & 2



- Arctic Duty Construction

Advantages

- Easy Installation
- Safe, Propylene Glycol Heat Transfer Fluid
- Low Surface Temperature
- Wall, Pole or Ceiling Mounting
- Built-in Controls
- Virtually Maintenance Free
- Corrosion Resistant
- 120V Control (24V optional)
- Rugged and Versatile

Refer to
WR-8OEP
in the Controls section.

CXH-A

Explosion Proof Blower Heater for Hazardous Locations *(cont'd.)*

Heater Rating and Operating Data

(3 to 35 kW)	Hazardous Location 3 to 35 kW Models - Class I, Group C & D; Classifications Class II, Groups E, F & G, Divisions 1 & 2 Temperature Codes This temperature shall not exceed the ignition temperature of the gas or vapor to be encountered. All standard models 165°C (329°F) T3B
INSTALLATION	Maximum Mounting Height 8' to 10' (2.4 to 3 meters) normal, From Floor to Bottom of Heater when heat is required at floor level. Ambient Temperature -49°F/-45°C (Min.) 104°F/40°C (Max.) Operating Limits Maximum Operational 7500' (2286 meters). Check with local Chromalox sales Altitude Above Sea level office for recommendations for higher elevations.
PROTECTION	High-Limit Auto reset quick acting linear type thermal cutout. Pressure Relief Pressure relief device.
HEAT EXCHANGER	General Description Steel tubes, with integral rolled-aluminum fins Core Material Steel. Heat Transfer Fluid Propylene Glycol (Ethylene Glycol available for arctic duty - check with local Chromalox sales office.) Heating Element Assembly Immersion heater assembly with seamless copper sheathed heating elements.
CABINET	Cabinet 14 gauge steel, polyester powder-coated. Individually adjustable louvers with minimum position stops. Fan Guard Heavy duty polyester powder-coated steel. Fasteners Nickel plated steel for corrosion resistance. Conduit Material Plated steel for corrosion resistance. Control Enclosure Cast aluminum (non-copper Alloy) NEMA 7 and 9 enclosure. Hanger Connections 2 (two) 5/8" UNC tapped holes.
CONTROLS	Control Circuit Built in 120V control. Optional 24V control available. Power Contactor 50 Amp/600V. Transformer Primary voltage same as heater voltage - secondary voltage, 24V or 120V.

INDUSTRIAL

CXH-A

Explosion Proof Blower Heater for Hazardous Locations *(cont'd.)*

Ordering Information

To Order — Complete the Model Number using the Matrix Provided.

Model Numbers

When ordering CXH-A heaters, specify the model number and corresponding PCN (Product Code Number, found in the Ordering Information Table). If thermostat, or disconnect switch options are required, designate these options in addition to the model number when ordering. Use PCN Numbers only on standard models. On made to order CXH heaters, complete catalog number from matrix provided. Always specify voltage, phase and kW by listing them on the purchase order product specifications.

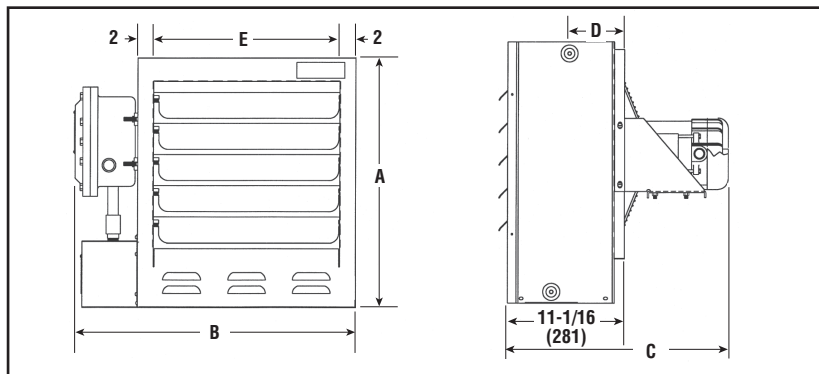
Model Explosion Proof Blower Heater									
CXH-A									
Code	Heating Element Rating (kW)								
03	3								
05	5								
07	7.5								
10	10								
15	15								
18	18								
20	20								
25	25								
30	30								
35	35								
Code	Heater Volts								
2	240								
3	380 (3 phase only)								
4	480 (3 phase only)								
5	415 (3 phase only)								
6	575 (3 phase only)								
8	208								
9	600 (3 phase only)								
Code	Phase								
1	1								
3	3								
Code	Control Volts								
30	24								
32	120 (Std.)								
Code	Thermostat Option								
00	Without Thermostat								
40	Thermostat								
Code	Heat Exchanger								
1	Ethylene Groups C, D, E, F, G						T3B		
2	Propylene Groups C, D, E, F, G (Std.)						T3B		
3	Ethylene Groups C, D, F, G						T3C		
4	Propylene Groups C, D, F, G						T3C		
Code	Options								
0	Without Disconnect								
1	Disconnect: 15 Amp 3-phase, 30 Amp 1-phase or 3-phase, specify as required								
2	60 Amp Disconnect								
3	Pilot Light No Disconnect								
4	Pilot Light and 30 Amp Disconnect								
5	Pilot Light and 60 Amp Disconnect								
6	Summer Fan Switch								
7	Summer with Pilot Light								
8	Disconnect with Fan Switch								
9	Disconnect Pilot Light and Fan Switch								
Code									
EP	Explosion Proof								
CXH-A 10	4	3	30	40	1	1	EP	Typical Model Number	

CXH-A

Explosion Proof Blower Heater for Hazardous Locations

(cont'd.)

Dimensions In. (mm)



Heater Dimensions In. (mm)

Heater	Dimensions (In.)				
	A	B	C	D	E (Mtg. Holes)
CXH-A-03 to -10	19-1/8 (485.8)	23-7/8 (606.4)	21 (533.4)	3-1/2 (88.9)	13-5/8 (346.1)
CXH-A-15 to -20	25 (635.0)	27-7/8 (708.0)	21 (533.4)	4-13/32 (111.9)	17-5/8 (447.7)
CXH-A-25 to -35	32-5/39 (816.1)	31-7/8 (809.6)	21-3/4 (552.5)	5-1/2 (139.7)	21-5/8 (549.3)

Notes —

- A. E dimension mounting hole center to center.
- B. Disconnect switch option increases B dimension by 7 inches (177.8 mm).