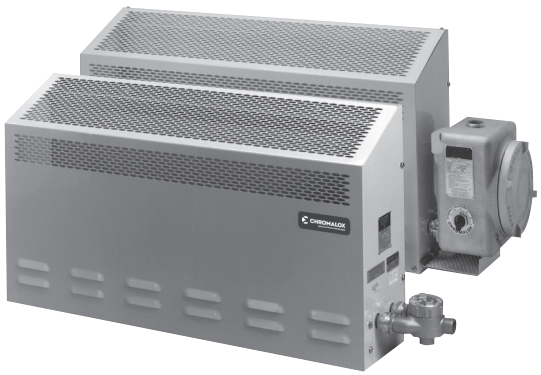
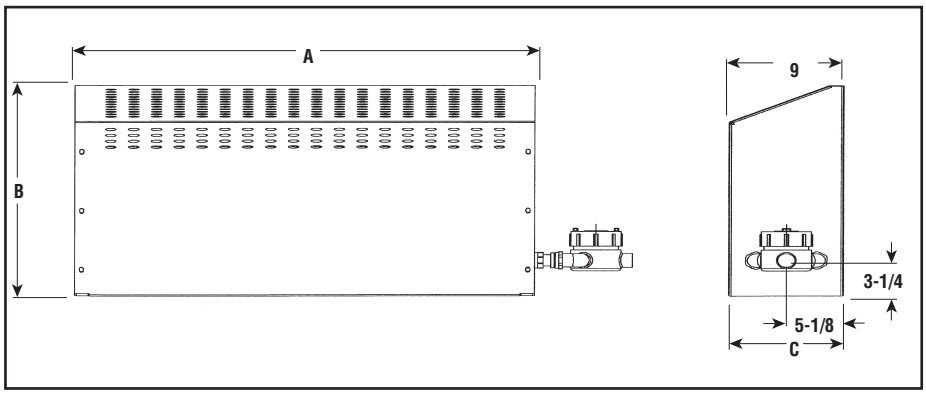
CVEP
Explosion Proof Convection Heater



- 1.6 - 9 kW
- 5,459 - 30,708 Btuh
- 120, 208, 240, 277, 480 and 575 Volt
- 1 & 3 Phase
- Built-in & Prewired Control Options
- UL Listed and CSA Certified for Class 1, Division 1 or 2, Group B, C & D Environments
- ATEX and EAC Models Available

Dimensions (Inches)



Description

Type CVEP explosion proof convection heater is designed to provide a rugged, corrosion-resistant heat source for areas where volatile flammable liquids, gases or vapors are present. All basic models without controls are UL listed and CSA certified for use in areas designated as Class 1, Division 1 or 2 Group B, C or D locations.

Applications

- Petroleum Refineries, Gasoline Storage and Dispensing Areas
- Industrial Areas Using Flammable Liquids in Dip Tanks
- Petroleum Refineries
- Dry Cleaning Plants
- Utility and Natural Gas Plants
- Aircraft Hangers/Fueling Areas
- Solvent Extraction Plants
- Storage Areas for Flammable Products or Batteries
- Sewage Treatment Plants
- Hydrogen Atmospheres

Dimensions (Inches)

kW	A	B	C
1.6, 1.8 and 3.6	34	20	9
3.2 and 7.6	58	20	9
4.0, 4.5 and 9.0	70	20	9

Construction

Cabinet — Sloped top, constructed of heavy 16 gauge steel, polyester powder coated for maximum corrosion resistance.

Explosion Proof Junction Box — For conduit entry and ease of power wiring.

Heating Elements — Sealed, metal sheath, heavy-duty, low watt density, enclosed high grade resistance wire embedded in MgO refractory core. Elements are inserted in a copper tube with aluminum fins.

Features

Integral Mounting Brackets allow for easy wall installation.

Sloped Top Cabinet ensures maximum ventilation by preventing objects from being placed on the top which would restrict air flow.

Designed for Areas Classified

- Class I, Division 1 or 2, Groups B, C, D
- Temperature Code T3A 180°C (356°F) or T2A 280°C (536°F)
  Ex II2G Ex d IIB T2-T3

Optional Features (Factory Installed)

- Thermostat
- Magnetic Contactor
- Control Voltage Transformer

Advantages

- Easy Installation
- Clean, Safer Heat Source
- Pre-Wired Control Options
- Long Life

CVEP
Explosion Proof Convection Heater *(cont'd.)*

Ordering Information

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

Power & Temp. Control Options

Power Control Combination	Thermostat Option	Figure Number
00	00	1
00	40[1]	5
00	42[2]	2
30 - 35	00	4
30 - 35	40	5
30 - 35	42	3

[1] **Thermostat option:** 40
Temperature range: 40˚ - 90˚F
Electrical Rating: 25 Amp 24V, 120V, 240V AC 22 Amp 277 VAC Higher Voltage or 3 phase requires magnetic contactor option and transformer

[2] **Thermostat option:** 42
Temperature range: 50˚ - 90˚F
Electrical Rating: 22 Amps 125/277 VAC Higher Voltage or 3 phase requires magnetic contactor option and transformer

Model	Explosion Proof Convection Heater					
CVEP						
Code	Watts					
16	1600	**40**	4000			
18	1800	**45**	4500			
32	3200	**76**	7600			
36	3600	**90**	9000			
Code	Voltage					
1	120	**6**	575			
2	240	**7**	277			
3	380	**8**	208			
4	480	**9**	600			
5	415					
Code	Phase					
1	Single					
3	Three					
Code	Power Control Options (See Options Table)					
00	no transformer no contactor					
30	(24V) transformer and contactor					
31	no transformer with contactor(24V)					
32	(120V) transformer and contactor					
33	no transformer with contactor(120V)					
34	no transformer with contactor(208/240V)					
35	no transformer with contactor(277V)					
Code	Thermo/Class Options (See Options Table)					
00	no thermo B, C & D					
40	thermo in box B, C & D					
42	thermo C & D					
CVEP	**16**	**1**	**1**	**30**	**42**	**Typical Model Number**

CE approved models available. Contact your Chromalox representative.

Dimensions (Inches)

Figure 1

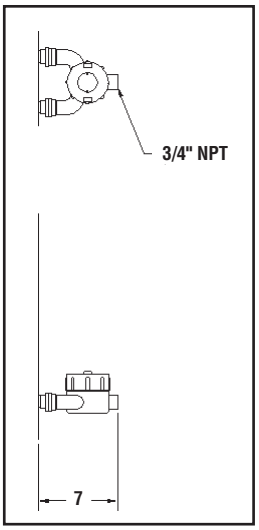


Figure 2

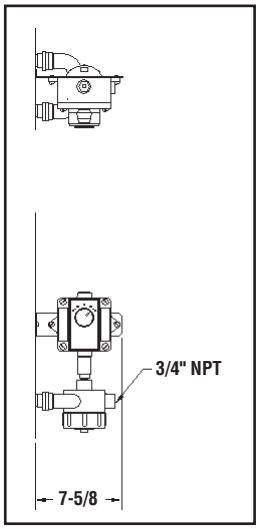


Figure 3

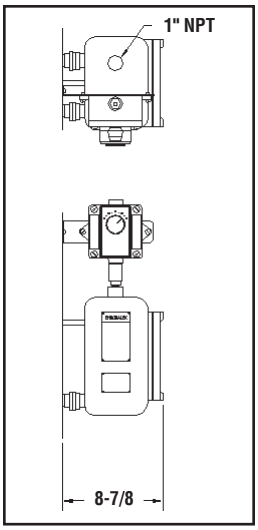


Figure 4

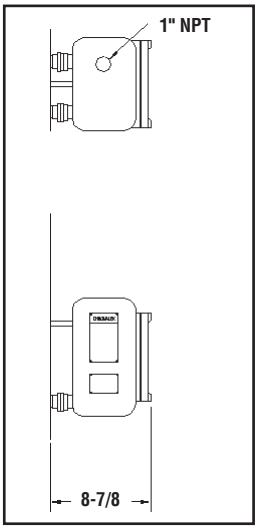
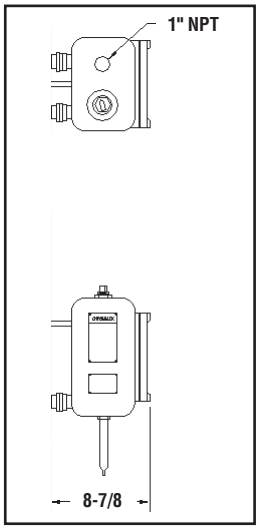


Figure 5



CVEP
Convection Heater For Hazardous Locations

Specifications and Ordering Information

Electrical					Model	Stock	PCN	Wt. (Lbs.)
kW	Volts	Phase	Amps	Btuh				
Temperature Code T3A (356°F, 180°C) Group B, C, and D								
1.6	208	1	7.7	5,500	CVEP-16-81-00-00	NS	088336	58
1.6	208	3	4.5	5,500	CVEP-16-83-00-00	NS	086844	58
1.6	240	1	6.7	5,500	CVEP-16-21-00-00	NS	086852	58
1.6	240	3	3.8	5,500	CVEP-16-23-00-00	NS	086860	58
1.6	277	1	5.8	5,500	CVEP-16-71-00-00	NS	086879	58
1.6	480	1	3.3	5,500	CVEP-16-41-00-00	NS	086887	58
1.6	480	3	1.9	5,500	CVEP-16-43-00-00	NS	086895	58
1.6	575	1	2.8	5,500	CVEP-16-61-00-00	NS	086908	58
3.2	208	1	15.4	11,000	CVEP-32-81-00-00	NS	086916	94
3.2	208	3	9.0	11,000	CVEP-32-83-00-00	NS	086924	94
3.2	240	1	13.3	11,000	CVEP-32-21-00-00	NS	086932	94
3.2	240	3	7.7	11,000	CVEP-32-23-00-00	NS	086940	94
3.2	277	1	11.6	11,000	CVEP-32-71-00-00	NS	086959	94
3.2	480	1	6.7	11,000	CVEP-32-41-00-00	NS	086967	94
3.2	480	3	3.8	11,000	CVEP-32-43-00-00	NS	086975	94
3.2	575	1	5.6	11,000	CVEP-32-61-00-00	NS	086983	94
4	208	1	19.2	13,600	CVEP-40-81-00-00	NS	086991	112
4	208	3	11.1	13,600	CVEP-40-83-00-00	NS	087003	112
4	240	1	16.7	13,600	CVEP-40-21-00-00	NS	087011	112
4	240	3	9.6	13,600	CVEP-40-23-00-00	NS	087020	112
4	277	1	14.4	13,600	CVEP-40-71-00-00	NS	087038	112
4	480	1	8.3	13,600	CVEP-40-41-00-00	NS	087046	112
4	480	3	4.8	13,600	CVEP-40-43-00-00	NS	087054	112
4	575	1	7	13,600	CVEP-40-61-00-00	NS	087062	112
Temperature Code T2A (536°F, 280°C) Group B, C, and D								
1.8	120	1	15	6,140	CVEP-18-11-00-00	NS	028759	46
1.8	208	1	8.7	6,140	CVEP-18-81-00-00	NS	028767	46
1.8	208	3	5	6,140	CVEP-18-83-00-00	NS	028775	46
1.8	240	1	7.5	6,140	**CVEP-18-21-00-00**	**S**	**028783**	46
1.8	240	3	4.4	6,140	CVEP-18-23-00-00	NS	028791	46
1.8	277	1	6.5	6,140	CVEP-18-71-00-00	NS	028804	46
1.8	480	1	3.7	6,140	CVEP-18-41-00-00	NS	028812	46
1.8	480	3	2.2	6,140	CVEP-18-43-00-00	NS	028820	46
3.6	208	1	17.3	12,300	**CVEP-36-81-00-00**	**S**	**087070**	58
3.6	208	3	10	12,300	CVEP-36-83-00-00	NS	087089	58
3.6	240	1	15	12,300	**CVEP-36-21-00-00**	**S**	**087097**	58
3.6	240	3	8.7	12,300	CVEP-36-23-00-00	NS	087100	58
3.6	277	1	13	12,300	CVEP-36-71-00-00	NS	087118	58
3.6	480	1	7.5	12,300	**CVEP-36-41-00-00**	**S**	**087126**	58
3.6	480	3	4.3	12,300	CVEP-36-43-00-00	NS	087134	58
3.6	575	1	6.3	12,300	CVEP-36-61-00-00	NS	087142	58
7.6	208	1	36.5	24,000	CVEP-76-81-00-00	NS	085913	94
7.6	208	3	21.1	24,000	CVEP-76-83-00-00	NS	085921	94
7.6	240	1	31.7	24,000	**CVEP-76-21-00-00**	**S**	**085930**	94
7.6	240	3	18.3	24,000	CVEP-76-23-00-00	NS	085948	94
7.6	277	1	27.4	24,000	CVEP-76-71-00-00	NS	085956	94
7.6	480	1	15.8	24,000	CVEP-76-41-00-00	NS	085964	94
7.6	480	3	9.2	24,000	CVEP-76-43-00-00	NS	085972	94
7.6	575	1	13.2	24,000	CVEP-76-61-00-00	NS	085980	94
9	208	1	43.3	30,700	CVEP-90-81-00-00	NS	087230	112
9	208	3	25	30,700	CVEP-90-83-00-00	NS	087249	112
9	240	1	37.5	30,700	CVEP-90-21-00-00	NS	087257	112
9	240	3	21.7	30,700	CVEP-90-23-00-00	NS	087265	112
9	277	1	32.5	30,700	CVEP-90-71-00-00	NS	087273	112
9	480	1	18.8	30,700	CVEP-90-41-00-00	NS	087281	112
9	480	3	10.8	30,700	CVEP-90-43-00-00	NS	087290	112
9	575	1	15.7	30,700	CVEP-90-61-00-00	NS	087302	112
Stock CVEP with Built-in Thermostat								
1.8	120	1	15	6,140	**CVEP-18-11-00-42**	**S**	**028839**	59
1.8	208	1	8.7	6,140	**CVEP-18-81-00-42**	**S**	**028847**	59
1.8	240	1	7.5	6,140	CVEP-18-21-00-42	NS	028855	59
1.8	277	1	6.5	6,140	CVEP-18-71-00-42	NS	028863	59
1.8	480	1	3.7	6,140	CVEP-18-41-32-42[1]	NS	028871	69
3.6	208	1	17.3	12,300	**CVEP-36-81-00-42**	**S**	**028644**	60
3.6	240	1	15	12,300	**CVEP-36-21-00-42**	**S**	**028660**	60
3.6	480	1	7.5	12,300	CVEP-36-41-32-42[1]	NS	028652	70

Stock Status: **S** = stock AS = assembly stock NS = non-stock
To Order—Specify model, PCN, kW, volts, phase and quantity.
CE approved models available. Contact your Chromalox representative.

Note —
1. Includes control transformer and contactor
2. Other sizes and configurations available, contact your Local Chromalox Sales office.