

CHS Series Cata-Dyne™ Heating Package



The Cata-Dyne™ CHS Series Heating Package is the industry standard for space and spot heating applications where flammable gases, vapours or liquids may be present. Equipped with explosion-proof infrared heaters, this package comes standard or custom designed to meet any unique application.

The Cata-Dyne™ infrared heaters are controlled either manually or with an integrated hazardous locations control panel.

Applications

Comfort heating for industrial buildings, CNG, LNG or propane vehicle maintenance facilities and freeze protection for equipment and components.

Control Panel Features

- Single switch **"ON"/"OFF"/"STANDBY"** control
- -18°C to 38°C (0°F to 100°F) thermostat
- Interlock terminals for integration with ancillary equipment
- Custom options available
- CSA C/US certified for Class I, Division 2, Group D, or optional UL_c certification for Class I, Division 1, Group D, IEC Ex
- Expandable to 6 zones
- Touch screen option for CSA Class 1, Division 2
- Exhaust fan control

Control Panel Benefits

- Single point control of multiple heaters
- Floor level access to all control functions
- Interlock terminals for remote "Enable" & "Standby"
- Self diagnostic fault indication
- Optional remote thermostat for each zone

Heater Features

- Proprietary Cata-Dyne™ catalyst pad
- Corrosion resistant 300 series stainless-steel construction
- Natural gas or propane operation
- Electric start available in 120V to 600V
- Individual heater models range from 8,000 to 48,000 Btu/hr
- CSA certified for use in Class I, Division 1 & 2, Group D hazardous locations
- Certified to ANSI Z83.20a-2010/CSA 2.34a-2010
- NFPA30A Compliant

Heater Benefits

- No moving parts and designed to operate indefinitely when supplied with clean fuel and adequate ventilation
- Heaters can be strategically positioned to optimize heat distribution

Table 16 – Control Panel Capacities - Heaters/Controllers Per Zone

Heater		Preheat Wattage					Max. Number of Heaters (Max. Current)						
Size	Btu/hr Rating	120V	208V	240V	480V	600V	120V AC	208V AC	240V AC	208V AC	240V AC	480V AC	600V AC
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12x24	8000	500	500	500	700	550	48 H (200 A)	48 H (115 A)	48 H (100 A)	48 H (66.7 A)	48 H (57.8 A)	48 H (40.5 A)	48 H (25.4 A)
12x36	12000	600	600	600	600	600	48 H (240 A)	48 H (138 A)	48 H (120 A)	48 H (80.0 A)	48 H (69.4 A)	48 H (34.7 A)	48 H (27.7 A)
12x48	16000	800	800	800	800	800	42 H (280 A)	48 H (185 A)	48 H (160 A)	48 H (107 A)	48 H (92.5 A)	48 H (46.2 A)	48 H (37.0 A)
12x60	20000	1250	1250	1250	1250	1250	27 H (281 A)	48 H (288 A)	48 H (250 A)	48 H (167 A)	48 H (145 A)	48 H (72.3 A)	48 H (57.8 A)
12x72	24000	1450	1450	1450	1450	1450	23 H (280 A)	39 H (272 A)	47 H (284 A)	48 H (193 A)	48 H (168 A)	48 H (83.8 A)	48 H (67.1 A)
18x24	12000	500	500	500	700	-	48 H (200 A)	48 H (115 A)	48 H (100 A)	48 H (66.7 A)	48 H (57.8 A)	48 H (40.5 A)	N/A
18x36	18000	1200	1200	1200	1200	1200	28 H (280 A)	48 H (277 A)	48 H (240 A)	48 H (160 A)	48 H (139 A)	48 H (69.4 A)	48 H (55.5 A)
18x48	24000	1600	1600	1600	1600	1600	21 H (280 A)	36 H (277 A)	42 H (280 A)	48 H (213 A)	48 H (185 A)	48 H (92.5 A)	48 H (74.0 A)
18x60	30000	2500	2500	2500	2500	2500	13 H (271 A)	24 H (288 A)	27 H (281 A)	39 H (271 A)	45 H (271 A)	48 H (145 A)	48 H (116 A)
18x72	36000	2900	2900	2900	2900	2900	11 H (266 A)	20 H (279 A)	23 H (278 A)	33 H (266 A)	39 H (272 A)	48 H (168 A)	48 H (134 A)
24x24	16000	500	500	500	700	-	48 H (200 A)	48 H (115 A)	48 H (100 A)	48 H (66.7 A)	48 H (57.8 A)	48 H (40.5 A)	N/A
24x30	20000	500	500	500	700	-	48 H (200 A)	48 H (115 A)	48 H (100 A)	48 H (66.7 A)	48 H (57.8 A)	48 H (40.5 A)	N/A
24x36	24000	1200	1200	1200	1200	1200	28 H (280 A)	48 H (277 A)	48 H (240 A)	48 H (160 A)	48 H (139 A)	48 H (69.4 A)	48 H (55.5 A)
24x48	32000	1600	1600	1600	1600	1600	21 H (280 A)	36 H (277 A)	42 H (280 A)	48 H (213 A)	48 H (185 A)	48 H (92.5 A)	48 H (74.0 A)
24x60	40000	2500	2500	2500	2500	2500	13 H (271 A)	24 H (288 A)	27 H (281 A)	39 H (271 A)	45 H (271 A)	48 H (145 A)	48 H (116 A)
24x72	48000	2900	2900	2900	2900	2900	11 H (266 A)	20 H (279 A)	23 H (278 A)	33 H (266 A)	39 H (272 A)	48 H (168 A)	48 H (134 A)

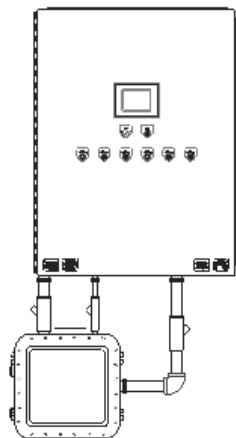


Figure 14 – Typical for 6 Stages (Hazardous Location Control Panel)

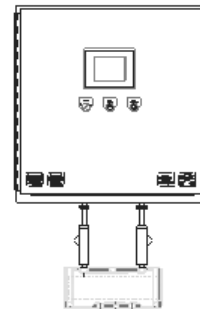


Figure 15 – Typical for 1 Stage Unit (Hazardous Location Control Panel)