

Protection Grilles

Two types of protection grilles are available to protect personnel and objects from coming into direct contact with the face of the Cata-Dyne™ heater.

Strap-On Grilles

- Comes with four straps on all corners so the grille can be bolted to the heater box
- Can be bolted to a variety of standard Cata-Dyne™ heaters
- The bolting hardware is included in the purchase

Note: Cannot be used with MKII units. Not available for all sizes.

Snap-On Grilles

- These snap on to the bezel of the Cata-Dyne™ heater
- Available in a variety of sizes
- They do not require any additional hardware or tools to install
- MKII units accept this style only

Note: Can only be used with units manufactured after September 1, 2002.



Gas Pressure Test Kit

- Pressure gauge and PVC tube used to accurately test and measure the gas pressure going into a Cata-Dyne™ heater by connecting the tube end to the gas test port of the Safety Shut-Off Valve
- Portable kit, ideal for all heater sizes
- Eliminates the need to fit test ports on pipelines used for heater operation
- Includes a 15" w.c. (3.7 kPa) pressure gauge, a 6 ft (1.8 m) PVC tube and the connection to the SSOV
- Compatible with both natural gas and propane heaters

POL Adapters

- Propane fitting adapter used as a straight adapter that reduces a propane cylinder adapter to 1/4" NPT
- Full flow brass fitting with a 7/8" (22 mm) hex nut



Stratafan™

Stratafan™ produces up to 150 cfm of air flow promoting uniform distribution of heat within enclosed areas, reducing temperature stratification and ventilation dead spots. This thermoelectric fan is self powered by a thermoelectric generator and has a cast aluminum housing.



- Certifications
 - CSA certified for Class I, Divisions 1 & 2, Group D Hazardous locations; certified to temperature code T3C

Vent Hood Assembly

- A light weight galvanized steel construction venting system for use with the Cata-Dyne™ heater to vent the by-products of reaction (carbon dioxide and water vapour) outside the building
- Each assembly consists of 1 exhaust hood, 1 length of vent pipe 30" (762 mm), 1 elbow, 1 flashing, and 1 snowcap
- Assemblies available for both standard Cata-Dyne™ heaters and MKII models (12" and 24")
- The above parts can be ordered individually



Part No.	Width	
	in	mm
AC-VHASSY-6	6	152
AC-VHASSY-8	8	203
AC-VHASSY-12	12	305
AC-VHASSY-24	24	610
AC-VHASSY-36	36	914
AC-VHASSY-48	48	1219
AC-MKIIVHASSY-12	MKII - 12	305
AC-MKIIVHASSY-24	MKII - 24	610

Wall Mounting Brackets



- Optional stainless steel or mild steel constructed mounting brackets and hardware
- Standard wall brackets can mount Cata-Dyne™ heaters 7.5" (190 mm) away from the wall to allow access to the back of the heater
- MKII model bracket sizes are half the length of our standard wall mounting brackets allowing the heater to be installed closer to the wall
- Brackets for large units over 8,000 Btu/hr (2.3 kW) are manufactured from heavy gauge mild steel flat bar

Part No.	Heater Size (in)
AC-WBRK-08	8x8
AC-WBRK-06	6x24
AC-WBRK-12	12x12
AC-WBRK-12	12x24
AC-WBRK-12	12x36
AC-WBRK-12	12x48
AC-WBRK-12	12x60
AC-WBRK-12	12x72
AC-WBRK-1824	18x24
AC-WBRK-1836	18x36
AC-WBRK-1848	18x48
AC-WBRK-1860	18x60
AC-WBRK-1872	18x72
AC-WBRK-2424	24x24
AC-WBRK-2430	24x30
AC-WBRK-2436	24x36
AC-WBRK-2448	24x48
AC-WBRK-2460	24x60
AC-WBRK-2472	24x72

45° Wall Mount Brackets

- Specialized mounting angle brackets used to simplify the installation of all 18" and 24" Cata-Dyne™ heaters
- Manufactured from mild rolled steel with a zinc plated finish

Part No.	Description - Mounting Angle Bracket
AC-WBRK-1824-45	18 x 24, Short Side
AC-WBRK-1836-45	18 x 36, Long Side
AC-WBRK-1848-45	18 x 48, Long Side
AC-WBRK-1860-45	18 x 60, Long Side
AC-WBRK-1872-45	18 x 72, Long Side
AC-WBRK-2424-45	24 x 24, Long Side
AC-WBRK-2436-45	24 x 36, Long Side
AC-WBRK-2448-45	24 x 48, Long Side
AC-WBRK-2460-45	24 x 60, Long Side
AC-WBRK-2472-45	24 x 72, Long Side

Floor Stands

- 12-gauge galvanized steel construction and hardware
- Allows the heater to be placed closer to an object than the wall mounting system
- Floor stands are adjustable, allowing the unit to be moved to the optimum height for the required heating application

Part No.	Description
AC-FSS-8	8x8
AC-FSS-24	6x24
AC-FSS-12	12x12
AC-FSS-24	12x24
AC-FSL	12x36
	12x48
	12x60
	12x72
	18x24
	18x36
	18x48
	18x60
	18x72
	24x24
	24x30
	24x36
	24x48
	24x60
	24x72



Conversion Data

1000 Btu/hr = 0.2929 kW or 292.9 W

1000 Btu = 1.054 MJ

3,412 Btu/hr = 1.0 kW

1 psi = 27.91 inches w.c.

1 psi = 6.895 kPa

1 inch w.c. = 0.247 kPa

1 standard cubic foot NAT Gas = 1000 Btu

1 standard cubic foot LPG = 2,500 Btu

1 standard cubic meter NAT Gas = 37 MJ

1 standard cubic meter LPG = 88 MJ

1 pound LPG = 21,560 Btu

1 kilogram LPG = 50.1 MJ

3.5 inches w.c. = 8.7 mbar = 0.87 kPa = 0.126 psi

4 inches w.c. = 9.9 mbar = 0.99 kPa = 0.144 psi

7 inches w.c. = 17.3 mbar = 1.73 kPa = 0.251 psi

11 inches w.c. = 27.2 mbar = 2.72 kPa = 0.394 psi

$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times (5/9)$

$^{\circ}\text{F} = (9/5 \times ^{\circ}\text{C}) + 32$

1 ft = 0.3048 m

1 ft² = 0.09290304 m²

1 ft³ = 0.02831685 m³

1 in = 2.54 cm

1 in² = 6.4516 cm²

1 in³ = 16.38706 cm³

1 psi = 27.91 in. w.c.

1 in. w.c. = 0.247 kPa

1 cfm = 0.028312 m³/hr

Inverse Square Law

Intensity of infrared energy is inversely proportional to the square of the distance from the source of energy.

For infrared energy, this translates to: $I = P/4\pi r^2$

Where: I = intensity of infrared at the heated object

P = total power emitted from IR source

r = the distance from the source to the heated object