

Cata-Dyne™ Enclosures



Features

- built from highly durable stainless steel.
- simple to install and access, the enclosure system allows for the adjustment of the enclosed regulator, valve or choke.
- all units are sized specifically for each application to accurately focus the infrared energy.

Certifications

- CSA, FM and non-certified heaters can be used with the enclosure system.

TABLE 5 - Heater Enclosures

Heaters		Enclosed Component
Qty	Size	
1	6 x 6	Fisher 1301 Regulator
2	8 x 8	Fisher 357 Regulator
2	8 x 8	Fisher 627 & 630
2	8 x 8	Fisher D-Body Control Valve
1	8 x 8	461-S Regulator
1	10 x 12	Heater Enclosure, 3" Pipe Opening
2	12 x 12	FCV-2T Flow Control Valve
2	6 x 24	2" (51 mm) Diameter Pipe Preheater
2	12 x 24	4" (102 mm) Diameter Pipe Preheater
1	6 x 6	Roots 1.5 Rotary Meter
1	6 x 6	RM 1000 Rotary Meter
1	6 x 6	RM 3000 Rotary Meter
1	6 x 6	Roots 3M Rotary Meter
1	6 x 6	Roots 1M 600 Rotary Meter
1	6 x 6	Roots 3.6M 600 Rotary Meter

The Cata-Dyne™ Enclosure is a heating system consisting of our Cata-Dyne™ explosion-proof heater mounted within a stainless steel enclosure providing freeze protection for measurement or regulation equipment. From valves to pipelines, Cata-Dyne™ Enclosures can be custom designed and built to suit your needs.

Applications

- provides total freeze protection for a wide variety of regulators, valves, meters, orifice fittings, chokes and pipelines.
- ideal heating solution for critical gas pressure reduction and/or restriction locations where electricity is usually not available. These locations are prone to freeze-offs due to the Joule-Thomson effect: 4°C (7°F) temperature loss for every 100 psi (689.5 kPa) pressure reduction.
- standard enclosures are available for a variety of applications including the 600 series regulators and the FCV Choke Valve.
- for custom designed enclosure packages please contact a CCI Thermal representative.

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TABLE 6 Enclosure Gas Manifolds

Part #	Enclosure Gas Manifold
AC-HE-1301-M	Fisher 1301 Regulator
AC-HE-357-M	Fisher 1301 Regulator
AC-HE-600-M	Fisher 627 & 630 Regulators
AC-HE-DBODY-M	Fisher D-Body Control Valve
AC-HE-FCVCHOKE-M	FCV-2T
AC-HE-PP-2-M	2" (51 mm) dia. Pipe Preheater
AC-HE-PP-4-M	4" (102 mm) dia. Pipe Preheater

TABLE 8 Enclosure Pressure Regulator

Part #	Regulator
AC-R-1301F	Fisher 1301, High Pressure
AC-R-2511	Low Pressure, 11" (279 mm) - 250 psi
AC-R-912-3.5	Fisher 912, Low Pressure, 3.5" (89 mm) - 250 psi
AC-R-912-4.5	Fisher 912, Low Pressure, 4.5" (114 mm) - 250 psi

TABLE 7 Enclosure Temperature Controller

Part #	Temperature Control
AC-TC-HT	High Temp. Thermostat

Note:

When ordering please specify the operating fuel.



Enclosure Request for Quote Form

Client Information:

Company Name: _____

Address: _____

City, State (Prov): _____

Country, Zip (Postal Code): _____

Contact Name: _____

Phone / Fax: _____

E-mail: _____

Proposal Type Required:

Budgetary Formal Quote

Other: _____

Required Date for Proposal: _____

Anticipated Shipping Date for Project: _____

Project Name: _____

Application Summary: _____

Enclosure Type

Regulator

Pipe

Valve

Choke

Other With Description: _____

Device To Be Enclosed:

Type or Manufacturer/Size/Model: _____

Temperature:

Gas Inlet Before Device: _____ °C/°F

Temp. Limit of Enclosed Device: _____ °C/°F

Gas Outlet After Device: _____ °C/°F

Piping:

Diameter Inlet: _____ inches

Diameter Outlet: _____ inches

Design Temperature: _____ °C/°F

Design Pressure: _____ psig

Pressure:

Gas Inlet Before Regulator or Enclosure: _____ psig

Gas Outlet After Regulator or Enclosure: _____ psig

Gas Flow:

Maximum: _____ SCFM

Minimum: _____ SCFM

Type of Fluid Being Heated:

Natural Gas LPG Other

Electrical/Controls:

Electric Start
(Ex. Cata-Dyne™ WX, Cata-Dyne™ G)

Supply Power: _____ volt/phase

Area of Classification:

Non-Hazardous (Ex. Cata-Dyne™ G)

or

Hazardous (Ex. Cata-Dyne™ WX)

Class:____Div:____, Group:____, "T" Code:____

Outside Physical Dimensions Restrictions:

Max Min
L: _____ _____

W: _____ _____

H: _____ _____

Openings: A - Size: _____

B - Size: _____

C - Size: _____

D - Size: _____

E - Size: _____

Other Field Restrictions (please specify): _____

Available Drawings/Sketches: Yes (please attach)

No

Available Photos: Yes (please attach)

No

Options:

High Pressure Ball Valve

High Pressure Regulator (Fisher 1301)

Low Pressure Regulator (Fisher 912)

Filter

H₂S

Water

Oil

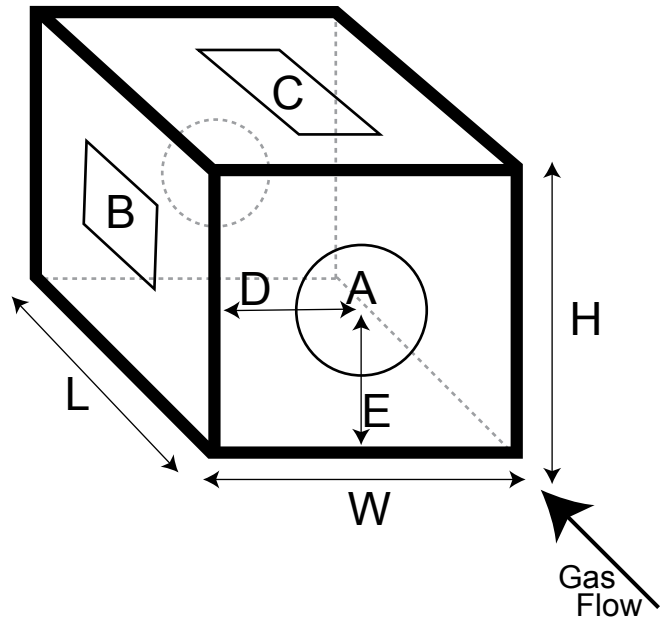
Particles

Filter Bypass Line

Thermostat Control:

High Temperature Controller
15°C - 121°C (60°F - 250°F)

Temperature Controller
0°C - 43°C (32°F - 110°F)



To receive your enclosure quote,
fax these pages to: **(780) 468-5904**
Attention: Projects