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.

### 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

<table>
<thead>
<tr>
<th>Heaters</th>
<th>Enclosed Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qty</td>
<td>Size</td>
</tr>
<tr>
<td>1</td>
<td>6 x 6</td>
</tr>
<tr>
<td>2</td>
<td>8 x 8</td>
</tr>
<tr>
<td>2</td>
<td>8 x 8</td>
</tr>
<tr>
<td>2</td>
<td>8 x 8</td>
</tr>
<tr>
<td>1</td>
<td>8 x 8</td>
</tr>
<tr>
<td>1</td>
<td>10 x 12</td>
</tr>
<tr>
<td>2</td>
<td>12 x 12</td>
</tr>
<tr>
<td>2</td>
<td>6 x 24</td>
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<tr>
<td>2</td>
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<tr>
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<td>6 x 6</td>
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<tr>
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<td>6 x 6</td>
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<tr>
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<td>6 x 6</td>
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<td>6 x 6</td>
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<tr>
<td>1</td>
<td>6 x 6</td>
</tr>
<tr>
<td>1</td>
<td>6 x 6</td>
</tr>
</tbody>
</table>

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### TABLE 6 Enclosure Gas Manifolds

<table>
<thead>
<tr>
<th>Part #</th>
<th>Enclosure Gas Manifold</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-HE-1301-M</td>
<td>Fisher 1301 Regulator</td>
</tr>
<tr>
<td>AC-HE-357-M</td>
<td>Fisher 1301 Regulator</td>
</tr>
<tr>
<td>AC-HE-600-M</td>
<td>Fisher 627 &amp; 630 Regulators</td>
</tr>
<tr>
<td>AC-HE-DBODY-M</td>
<td>Fisher D-Body Control Valve</td>
</tr>
<tr>
<td>AC-HE-FCVCHOKE-M</td>
<td>FCV-2T</td>
</tr>
<tr>
<td>AC-HE-PP-2-M</td>
<td>2” (51 mm) dia. Pipe Preheater</td>
</tr>
<tr>
<td>AC-HE-PP-4-M</td>
<td>4” (102 mm) dia. Pipe Preheater</td>
</tr>
</tbody>
</table>

### TABLE 7 Enclosure Temperature Controller

<table>
<thead>
<tr>
<th>Part #</th>
<th>Temperature Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-TC-HT</td>
<td>High Temp. Thermostat</td>
</tr>
</tbody>
</table>

### TABLE 8 Enclosure Pressure Regulator

<table>
<thead>
<tr>
<th>Part #</th>
<th>Regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-R-1301F</td>
<td>Fisher 1301, High Pressure</td>
</tr>
<tr>
<td>AC-R-2511</td>
<td>Low Pressure, 11” (279 mm) - 250 psi</td>
</tr>
<tr>
<td>AC-R-912-3.5</td>
<td>Fisher 912, Low Pressure, 3.5” (89 mm) - 250 psi</td>
</tr>
<tr>
<td>AC-R-912-4.5</td>
<td>Fisher 912, Low Pressure, 4.5” (114 mm) - 250 psi</td>
</tr>
</tbody>
</table>

**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: _________________________

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

Enclosure Type
- Regulator
- Pipe
- Valve
- Choke
- Other With Description: _______________________

Enclosure Request For Quote
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:

<table>
<thead>
<tr>
<th></th>
<th>Max</th>
<th>Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>______</td>
<td>______</td>
</tr>
<tr>
<td>W</td>
<td>______</td>
<td>______</td>
</tr>
<tr>
<td>H</td>
<td>______</td>
<td>______</td>
</tr>
</tbody>
</table>

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