

Total Freeze Protection

Introducing the Cata-Dyne™ Enclosure System

CCI Thermal manufactures a complete line of custom-designed catalytic heater enclosure packages that provide total freeze protection for a wide variety of regulators, valves, meters, orifice fittings, chokes and pipelines.

Built from highly durable stainless steel, every Cata-Dyne™ Enclosure System package comes standard with a gas or propane powered Cata-Dyne™ Explosion-Proof Infrared Heater, available in CSA and FM Class 1 Division 1 Group D hazardous location certification. Using the new Cata-Dyne™ WX Series catalyst pad, which consumes 33% less gas than our nearest competitor. Non-certified heaters as well as manifolds and regulator accessories are also available.

Simple to both install and access, Cata-Dyne™ Enclosure Systems are the ideal heating solution for critical gas pressure reduction locations where electricity is usually not available. These locations are prone to freeze-offs due to the Joule-Thomson effect — 7°F temperature loss for every 100 psi reduction. The Cata-Dyne™ Enclosure System heats these areas with safe and efficient infrared energy while protecting the Cata-Dyne™ Heater from adverse weather.

Cata-Dyne™ Enclosure Systems are designed with the following features in mind:

- **Material** — Cata-Dyne™ Enclosure Systems can be built using aluminum, painted steel, stainless or galvanized steel, depending on application
- **Size** — Cata-Dyne™ Enclosure Systems are sized specifically for each application to accurately focus infrared energy
- **Easy Installation** — The Cata-Dyne™ Enclosure System comes complete and ready for field installation
- **Quick Access** — The Cata-Dyne™ Enclosure System allows for the adjustment of the enclosed regulator, valve or choke
- **Efficiency** — The Cata-Dyne™ WX Series catalyst pad consumes 33% less gas than the nearest competitor

Cata-Dyne™

Enclosure System



Systems, Inc.

International Measurement and Control Systems

IMAC SYSTEMS, INC.

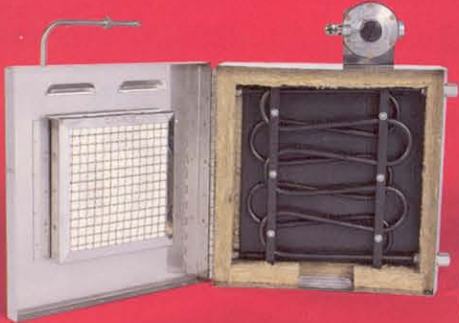
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Instrument Gas Preheaters

Cata-Dyne™ Instrument Gas Preheaters are designed to heat supply gas for regulators, controllers, gas chromatographs and other low flow instruments.



- Available in both single and dual coil models
- Standard stainless steel construction features the Cata-Dyne™ WX Series Explosion-Proof Heater using 33% less gas than the nearest competitor
- CSA or FM Class 1 Division 1 Group D hazardous location or non-certified units available



Standard Enclosures

AC-HE-600 Enclosure For Fisher 600 Series Regulators

Fits Fisher 630 (Big Joe) and other regulators of similar design. The design incorporates one or two heaters positioned next to the regulator where freeze-off occurs. The diaphragm housing is located outside the enclosure to avoid the high temperatures within.

AC-HE-FCV-Choke Enclosure For FCV Choke Valve

Made up of two halves with a heater in each which form the sides of the enclosure. When only one heater is used, a back plate is usually installed on the opposite side.



Filter Drip Heater
Package

Orifice Fittings

Rockwell Regulator

Fisher Pilot Regulator

Kimray 3" Back
Pressure Valve

Chokes

2" Kimray Motor or
Metering Valve

1" or 2" Motor Valve

Roots Meter
Heater Pack

Dump Valves

Level Controllers