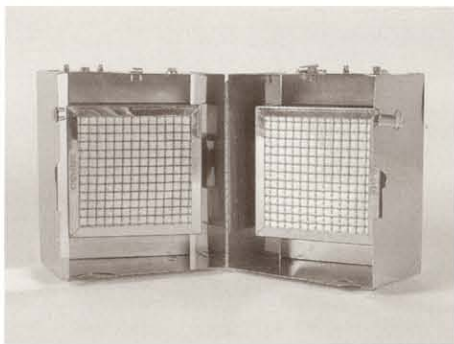


# Enclosure & Preheating Systems

## Cata-Dyne™ Enclosure System



CCI Thermal manufactures a complete line of standard and 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 natural gas or propane powered Cata-Dyne™ Explosion-Proof Infrared Heater. CSA, FM and non-certified heaters as well as manifolds and regulator accessories are available.

Simple to both install and access, Cata-Dyne™ Enclosure Systems are the 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: 3.89°C (7°F) temperature loss for every 100 psi (689.5 kPa) 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 are built using stainless steel

**Size:** Cata-Dyne™ Enclosure Systems are sized specifically for each application to accurately focus the infrared energy

**Easy:** 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

## 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.

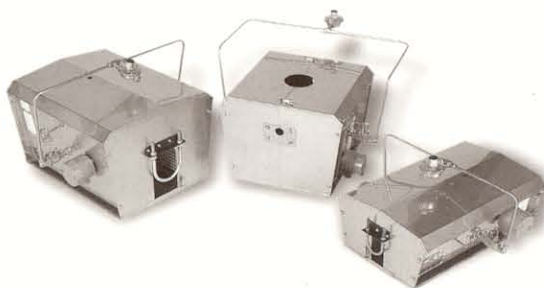
The diaphragm housing is located outside the enclosure to avoid the high temperatures within.

### 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 in. Back
- Pressure Valve
- Chokes
- 2 in. Kimray Motor or Metering Valve
- 1 in. or 2 in. Motor Valve
- Roots and Romet Rotary Meters
- Heater Pack
- Dump Valves
- Level Controllers



# CCI Thermal Enclosure & Preheating Systems

**TABLE 1 Heater Enclosures**

Heater Quantity & Size	Enclosed Component
1 - 6 x 6	Fisher 1301 Regulator
2 - 8 x 8	Fisher 357 Regulator
2 - 8 x 8	Fisher 627 & 630 Regulators
2 - 8 x 8	Fisher D-Body Control Valve
1 - 8 x 8	461-S Regulator
1 - 10 x 12	10 x 12 Heater Enclosure, 3 in. Pipe Opening
2 - 12 x 12	FCV-2T Flow Control Valve
2 - 6 x 24	2 in. Diameter Pipe Preheater
2 - 12 x 24	4 in. Diameter Pipe Preheater
1 - 6 x 6	Roots 1.5 Rotary Meter
1 - 6 x 6	RM 1000 Rotary Meter
1 - 6 x 6	Roots 3MLMMA Rotary Meter
1 - 6 x 6	Roots 3M Rotary Meter
1 - 6 x 6	Roots 1M600LMMA Rotary Meter
1 - 6 x 6	Roots 3.6M600LMMA Rotary Meter

**TABLE 2 Enclosure Gas Manifolds**

Part #	Enclosure Manifold
AC-HE-1301-M	Gas Manifold for Fisher 1301 Regulator
AC-HE-357-M	Gas Manifold for Fisher 357 Regulator
AC-HE-600-M	Gas Manifold for Fisher 627 and 630 Regulators
AC-HE-DBODY-M	Gas Manifold for Fisher D-Body Control Valve
AC-HE-FCVCHOKE-M	Gas Manifold for FCV-2T
AC-HE-PP-2-M	Gas Manifold for 2 in. Diameter Pipe Preheater
AC-HE-PP-4-M	Gas Manifold for 4 in. Diameter Pipe Preheater

**TABLE 3 Enclosure Temperature Controller**

Part #	Temperature Control
AC-TC-HT2000N-3	High Temperature Thermostat

**TABLE 4 Enclosure Pressure Regulators**

Part #	Regulator
AC-R-1301F	Fisher 1301, High Pressure
AC-R-912	Fisher 912, Low pressure, 11 in. - 250 psi
AC-R-912-3.5	Fisher 912, Low Pressure, 3.5 in. - 250 psi
AC-R-912-4.5	Fisher 912, Low pressure, 4.5 in. - 250 psi

**When ordering please specify the operating fuel, pressure, and start up voltage.**

