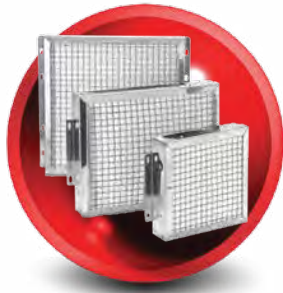




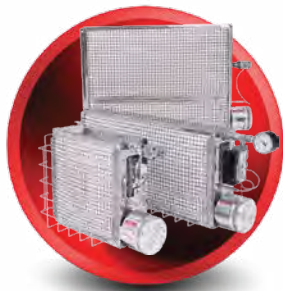
Cata-Dyne™

Explosion-Proof Gas Catalytic Heaters

Product Guide



- Heaters



- Enclosures



- Pipeline Systems

- Flo-Dri Scrubbers

- Accessories



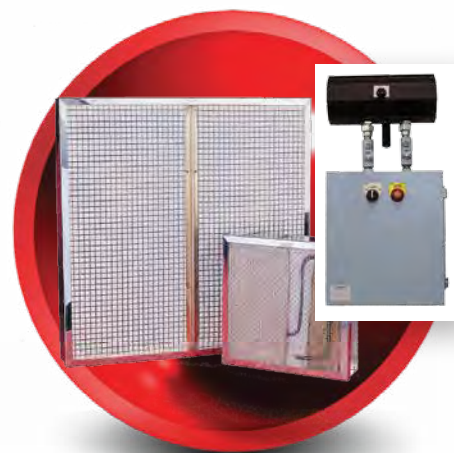
CCI Thermal
Technologies Inc.
Heating and Filtration Solutions

CANADA'S
**BEST
MANAGED
COMPANIES**
Platinum member

Heating Packages

Cata-Dyne™ Heating System Package

- Industry standard for space and spot heating applications where flammable gases, vapors or liquids may be present.
- Equipped with explosion-proof infrared heaters, this package comes standard or custom designed to meet any unique application.
- Cata-Dyne™ infrared heaters are controlled either manually or with an integrated hazardous location control panel.
- Applications include comfort heating for industrial buildings, CNG or propane vehicle maintenance facilities and freeze protection for equipment and components.
- Control panels are cCSA_{US} certified for Class I, Division 1 & 2, Group D, or optional UL_{C} certification for Class I, Division 1, Group D, IEC Ex, ATEX.
- Cata-Dyne™ infrared heaters are CSA certified for Class I, Division 1 & 2, Group D, certified to ANSI Z83.20b-2011/CSA 2.3b-2011, NFPA30A Compliant.



Line Heaters

- Catalytic heaters conform to ANSIZ83.20b-2011/CSA 2.34b-2011 standard for Gas-Fired Low Intensity Heaters.
- Conforms to CSA B149.1 & B149.3.
- CSA and FM certified for use in Class I, Division 1 or 2, Group D hazardous locations.
- No glycol.
- Reduced maintenance.
- Available custom engineered units for non-standard applications.
- Applications include heating high pressure natural gas prior to pressure reduction to event equipment freezing and the formation of hydrates.
- Other applications include conditioning fuel gas for natural gas turbines and engines and heating of gas and diluent streams in a variety of process applications.

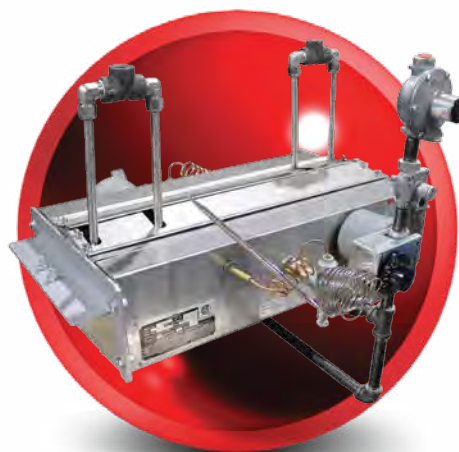


LH Line Heaters

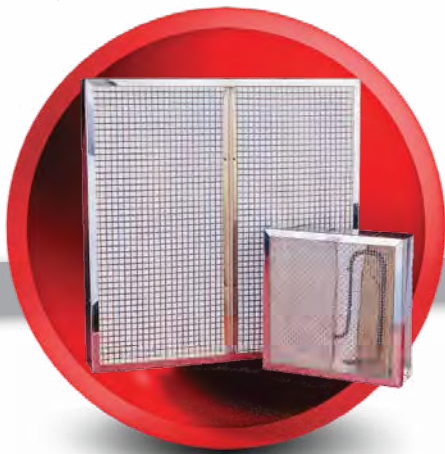
- 5 standard sizes ranging from 40,000 - 160,000 Btu.
- Fuel gas system designed and built in accordance with CSA/Can - B149.1 and NFPA 54.
- Vertical design for effective thermal draft ventilation of heater faces
- Conditioning fuel gas for natural gas turbines and engines.
- Heating of gas and diluent streams in a variety of process applications.

Micro Line Heaters

- Available standard sizes from 10,000 - 40,000 Btu.
- Allows for installation in an existing facility by mounting onto 1" - 2" piping.
- Freeze-off protection for natural gas pressure reduction applications.



Gas Catalytic Heaters *



WX Series Explosion-Proof Gas Catalytic Heaters

- Designed for spot or space heating applications where hazardous materials may be present.
- Comfort heating, freeze protection for equipment and drying or curing processes.
- 3" (76 mm) depth cabinets.
- Gas, electrical and accessory connections located on the back of the heater.
- 24 different models in natural gas or propane, ranging from 1,250 - 60,000 Btu/hr and from 12 - 600V.
- CSA Certified for Class I, Division 1 & 2, Group D, Temperature Code T2C.
- Factory Mutual (FM) certified for Class I, Division 1, Group D, Temperature Code T2C.
- CE marked, ATEX and GOST certified.

MKII Series Explosion-Proof Gas Catalytic Heaters

- Side mounted controls for low profile installation.
- Designed for spot or space heating applications where hazardous materials may be present.
- Comfort heating, freeze protection for equipment and drying or curing processes.
- 3" (76 mm) depth cabinets.
- Gas, electrical and accessory connections located on the side of the heater.
- 6 different models in natural gas or propane, ranging from 5,000 - 40,000 Btu/hr and from 12 - 120V.
- CSA Certified for Class I, Division 1 & 2, Group D, Temperature Code T2C.
- FM certified for Class I, Division 1, Group D, Temperature Code T2C.

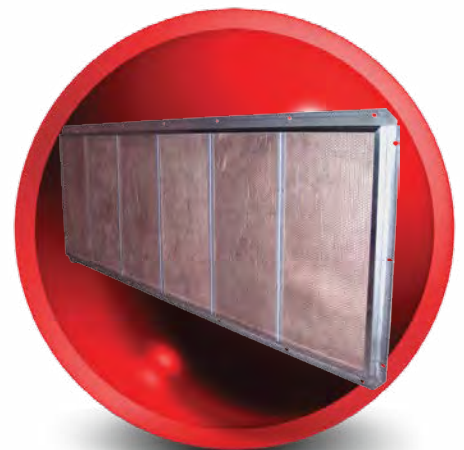


WXS Slim Line Series Explosion-Proof Gas Catalytic Heaters

- Designed for traditional installations and in compact enclosures for valves, regulators and instrumentation.
- 1 1/2" thinner design for applications with space installation constraints.
- QuikSTART heater technology reaches full operating temperature in half the time.
- 7 different models in natural gas or propane, ranging from 1,750 - 14,000 Btu/hr and from 12 - 240V.
- FM certified for Class I, Division 1, Group D.

G Series Industrial Gas Catalytic Heaters

- For use in non-hazardous heating applications such as infrared drying and curing ovens.
- 23 different models in natural gas or propane, ranging from 1,500 - 72,000 Btu/hr and from 12 - 600V.
- Certified by CSA, FM and CE (European standards) for non-hazardous area applications.



* Catalytic heaters conform to ANSI Z83.20b-2011/CSA 2.34b-2011 standard for Gas-Fired Low Intensity Heaters Conforms to CSA B149.1 & B149.3

Enclosures

- Enclosures come fully assembled.
- Stainless steel enclosures provide added longevity for the harshest environments.
- Cata-Dyne™ heaters are CSA or FM certified.
- Optional thermostats and regulators are available.
- Designed to clamp directly to the pipeline, spring clamps make installation easy.
- Custom designed enclosure packages available upon request.

HEA Regulator Enclosures

- Provides freeze protection for a wide variety of natural gas pipeline regulators.
- Enclosures are designed for specific regulators and generic applications.

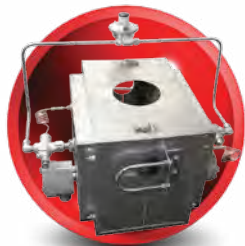


EPP Pipe Preheater Enclosures

- Designed to heat gas upstream of valves, chokes, orifice fittings and regulators.
- Commonly installed in locations where the valves, chokes, orifice fittings and regulators are not easily accessible.

ERM Rotary Meter Enclosures

- Designed to prevent freezing of wet gas and creation of hydrates that can cause meters to fail or provide inaccurate readings.
- Designed to suit many different rotary meter valves.



EMV Motor Valve Enclosures

- Heats the critical portions of the motor valve to prevent freezing.
- Designed to ensure that all the sensitive portions of the valve are outside of the heated zone.

EOF Orifice Fitting Meter Enclosures

- Heats an orifice fitting directly.
- Easily accessible entry for the orifice fitting adjustment.
- The assembly is designed to heat natural gas passing through the orifice to prevent icing and the dropout of liquids.



EIGP Instrument Gas Enclosures

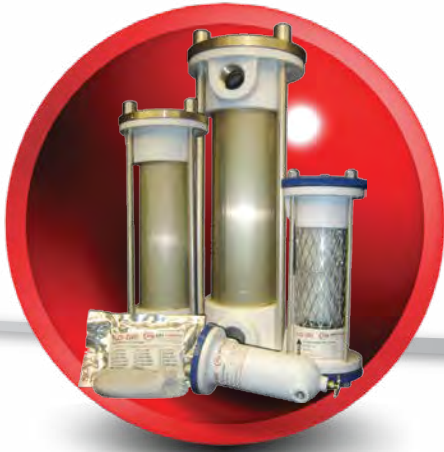
- Provides freeze protection for instrument supply gas, pilot actuated regulators and related applications.
- Stainless steel enclosure with both single and dual coil models.
- Low pressure fuel gas regulator included.
- Heat capacity ranges from 1,700 - 5,000 Btu/hr.
- CSA and FM certified heaters can be used with this enclosure type.
- Custom designs and sizes available.

SCH Super Conductor Enclosures

- Provides dry penetrating heat for small enclosures housing batteries, radio controls and other moisture-sensitive equipment.
- Innovative heat transfer technology uses radiant heat and conducting rods, creating a moisture free heat source.
- Equipped with a Cata-Dyne™ explosion-proof heater, copper rods, a standard or custom designed metal enclosure and fuel gas train accessories.
- Heating capacity ranges from 1,000 - 5,000 Btu/hr.
- CSA and FM certified and non-certified heaters can be used with this enclosure type.



Scrubbers



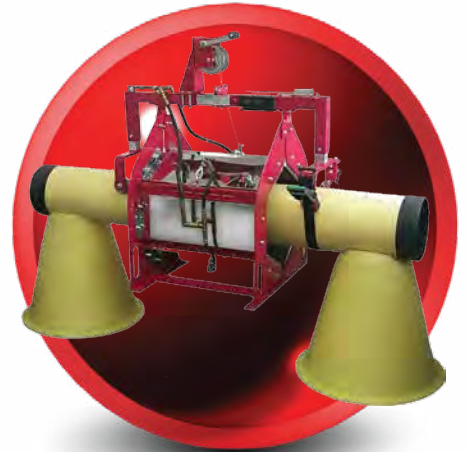
Flo-Dri Scrubbing Systems

- Removes fuel gas contaminants down to 0.5 micron in size.
- Flow rates from 600 - 9,000 SCFH.
- Maximum operating pressure up to 250 psig (depending on the unit specified).
- Designed and built in accordance with ASME standards.
- Canadian Registration Number is available for types G-10 and G-25.

Pipeline Systems

Sure Seal™ Pipeline Systems

- Provides efficient infrared heat transfer over large surface areas
Ideal for both preheat and shrink sleeve application processes.
- Suitable for baking to prevent hydrogen induced cracking.
- Customized options available upon request.
- Utilizes the hottest catalytic gas heater on the market.
- Models available for 2" - 48" (51 mm - 1219 mm) diameter pipelines.



Accessories



The Cata-Dyne™ product line is supported with essential accessories required to ensure the safe and efficient operation of the units.

Accessories include:

- Stratafan™
- Gas Pressure Regulators
- Safety Shut-Off Valves
- Thermocouple Probes
- Battery Cables/Start-up Leads
- Battery Cable Cabinets
- Fuel Gas Hoses
- Vent Hood Assemblies
- Wall / Floor Mounting Brackets
- Floor Stands
- Protection Grills
- Manual Shutoff Ball Valves
- Gas Pressure Test Kits
- P.O.L. Adapters
- Temperature Control Valves