Custom Engineering & Manufacturing Capabilities
At CCI Thermal Technologies Inc., we specialize in providing the custom solutions demanded by the industries we serve. If an existing product is not a fit for our customer’s needs, we will engineer and manufacture an application specific solution. If our customers need a new innovation, we develop it.

CCI Thermal is always poised to design, engineer, manufacture and test custom engineered products. Our engineers and project managers work closely with customers to identify their needs and create a customized technical solution.

All of our manufacturing facilities have the resources and expertise to create custom engineered solutions to meet customer specifications and respond to unique challenges. The broad scope of our product offering allows us to integrate equipment from our different brand lines into one perfect turnkey solution tailored specifically to our customers’ requirements. There is virtually no custom heating or filtration project outside the realm of our capabilities.
CCI Thermal Technologies Inc. exports its products to a large and growing worldwide customer base in more than 50 countries. The global market can be confident that our products, quality systems and manufacturing processes have undergone stringent testing and auditing by the world’s leading approval authorities.

The impressive list of approvals and certifications applicable to CCI Thermal Technologies Inc. products and facilities includes ASME, the Canadian Standards Association, Underwriters Laboratories Inc., ISO 9001, CE ATEX, IECex, FM Global, Eurasian Certification (EAC Mark), and Chinese Safety Quality License.
Caloritech™ Engineered Electric Heat

Caloritech™ specializes in the design and manufacture of industry leading custom engineered electric process heating equipment and controls. Caloritech™ products are built to internationally recognized quality control standards at our modern manufacturing facilities in Oakville and Orillia in Ontario, Canada. Both of these facilities are certified to ISO 9001, evidence of CCI Thermal’s commitment to quality. The majority of Caloritech™ equipment is UL recognized/listed or CSA approved.

At CCI Thermal Technologies Inc. we manufacture our own pressure vessels, to ASME, U, U2, S, UM and H stamps, and we can provide National Board registration. Our experienced engineering and design team is well equipped to handle custom projects for specific and unique applications.

Caloritech™ & 3L Filters™
Engineered Nuclear Products

CCI Thermal Technologies custom-engineered products for nuclear applications are designed and manufactured to suit CANDU, PWR and BWR Nuclear Reactors. Our products for nuclear applications adhere to a rigorous Quality Assurance program based on ASME Section III NCA 4000 in accordance with ASME NQA-1, 10 CFR 50 Appendix B, 10 CFR Part 21 and ANSI N45.2.
Engineered Process Systems

Our Caloritech™ and 3L Filters™ brands give CCI Thermal Technologies the unique ability to combine engineered process heating and filtration to design and manufacture a wide variety of custom-engineered process solutions and complete skid-mounted systems. Our expertise in gas and liquid filtration, industrial process heating and process controls together with our design and manufacturing capabilities allow us to supply custom engineered systems for a wide range of oil and gas, pipeline, power generation, petrochemical, nuclear, water treatment and environmental applications.

Our experienced team has created systems for a multitude of markets and customers. With in-house talents to accommodate all aspects of engineering and design, systems can be designed and built to meet ASME codes, seismic requirements, customer requirements and even military specifications.

For non-nuclear components, CCI Thermal maintains ASME Sec. VIII Div. 1 & 2 - UM, U2, S, H, and UM stamps. Our Quality Assurance program is regularly audited by TSSA, ASME and our clients. With the experience from hundreds of successful applications, CCI Thermal provides custom-engineered systems that are guaranteed to perform.

Engineering, Design & Manufacturing Capabilities

- Heating, filtration and process technology application expertise
- Heating and filtration equipment and pressure vessel design
- Design and engineering of process systems or packaged skids
- Mechanical, electrical process and design
- Safe or hazardous area selection
- Control system and instrumentation design
- PLC programming and testing
- FEA and CFD analysis, including stress, seismic and thermal analysis
- Fabrication in carbon steel, stainless steel, aluminum or specialty/exotic materials
- GMAW, SMAW, SAW, and GTAW welding
- In-house machining, blasting and painting
- In-house and third-party NDE testing
- In-house pressure and performance testing
Cata-Dyne™ Natural Gas Line Heaters

Cata-Dyne™ Line Heaters prevent equipment freezing and hydrate formation by providing clean silent preheating of natural gas prior to pressure regulation. Cata-Dyne™ line heaters employ industry leading Cata-Dyne™ gas catalytic heater arrays and heat exchanger coils engineered to promote high efficiency heat transfer and maximum radiant field exposure. Our coil and heater configurations allow for the most compact and efficient arrangement of heaters in the industry and can be custom engineered to minimize footprint or to suit unique site considerations.

Cata-Dyne™ line heaters can be custom engineered to include catalytic/electric hybrid options, PLC controls, remote start/stop, automated feedback control and safety related shutdowns. All systems are approved for Class I, Division 1 or 2, Group D hazardous locations.
As a leader in advanced heating and filtration solutions with facilities across North America, CCI Thermal Technologies Inc. manufactures six of the top brands in industrial heating in addition to a comprehensive line of engineered industrial filtration products including:

**Cata-Dyne™**

*Explosion-Proof Gas Catalytic Heaters*

Cata-Dyne™ is the industry standard in infrared gas catalytic heaters, enclosures, pipeline systems and accessories. Customers across a wide range of industries rely on Cata-Dyne™ to supply them with safe, reliable, efficient and versatile infrared catalytic heating equipment for a variety of applications in both hazardous and non-hazardous environments.

**Ruffneck™**

*Heaters for the Hardest Environments*

Ruffneck™ is renowned for its rugged, reliable and versatile heavy-duty explosion-proof heaters, heating systems and heating accessories. Ruffneck™ has a long and proud history of supplying quality heating products for the harshest industrial environments to a worldwide customer base for over 30 years. Ruffneck™ is well-known in the industry for its “ship the heat in a week” policy, where 95% of all standard orders are shipped within one week of order placement.

**3L Filters™**

*Engineered Filtration Systems*

3L Filters™ has satisfied the most demanding industrial filtration requirements for over 40 years. A broad range of standard and custom products includes liquid filters, strainers, separators, pressure vessels, and engineered products and systems. 3L Filters™ has special expertise for nuclear, petrochemical, water treatment and environmental applications.

**Caloritech™**

*Engineered Electric Heat*

Caloritech™ electric heaters, heating elements and heating accessories are well-known in the industry for their quality, reliability, performance and versatility. In addition to standard “off the shelf” industrial heaters and heating systems components, Caloritech™ also offers engineered heating solutions custom designed, manufactured and tested to satisfy customer specifications. No matter what your application or environment, Caloritech™ has a solution to fit your heating needs.

**Fastrax®**

*Track and Switch Heaters*

Fastrax® has manufactured railroad track and switch heating since 1995. Fastrax® engineers complete heating packages for the rail industry. Fastrax® track and switch heaters are designed to provide the most efficient heat transfer on rail equipment and components for the coldest environments. In addition to heaters, Fastrax® manufactures fully automatic energy saving controls to complete the rail heating system.

**Norseman™**

*Electric Explosion-Proof Heaters*

Norseman™ is the most technologically advanced line of explosion-proof electric air heaters and heating accessories, including both forced air heaters and natural convection heaters, as well as unit heaters, panel heaters and thermostats. Norseman™ offers innovative, low maintenance solutions for a wide range of applications in a variety of industrial and commercial environments. Custom engineered heaters or heating systems are available for specialized applications.

**DriQuik™**

*Infrared Oven Components*

DriQuik™ provides components for infrared drying ovens. DriQuik™ utilizes a pioneered radiant oven technology established in the 1930s providing the industry standard in infrared radiant heating components.

Visit www.ccithermal.com for detailed product information. Email: info@ccithermal.com