



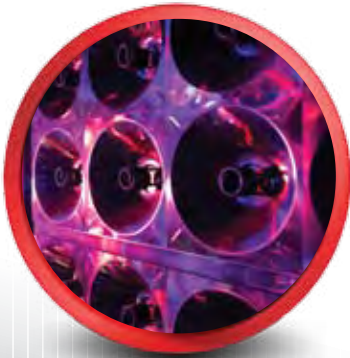
DriQuik™

Infrared Ovens



Product Guide

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CCI Thermal
Technologies INC.
Heating and Filtration Solutions



DriQuik™

Research & Test Center



DriQuik™ is fully committed to providing the best infrared ovens and systems to suit your specific requirements. We offer a state-of-the-art test facility that has the ability to test along the entire infrared curing spectrum for individual product and process suitability, ensuring that our customers receive the best possible value.

Here is a sampling of our offerings. We invite you to visit our test facility in Greensburg, Indiana to put these and the rest of our products to the test.

- A full scale combination QuikCAT, QuikSILVER and QuikCOIL Infrared Oven system, each an independent 10ft assembly with motorized movable sidewalls, followed by a 6ft QuikCOOL Tunnel, all accessed by an adjustable speed overhead monorail conveyor.
- Portable QuikKILN PYRO series multi-configurable high temperature oven.
- Combined QuikLITE™ and QuikLITE™ QS oven.
- Independent flatline ovens consisting of the QuikKILN PYRO series and SS-series and a QuikTAK unit, each of which contains an adjustable speed belt conveyor.
- QuikCOMMAND control center including a remote touch control operator display with multi-recipe program.
- Automated 3-stage pretreatment unit.
- Pressurized downdraft spray booth with integral QuikCAT low density curing system.
- Counter-opposed powder booths.
- Various wet and powder application equipment.
- Hand-held infrared temperature sensing guns.
- Real time six-channel radio-remote oven logging/thermograph equipment.
- Miscellaneous test equipment, including wet and dry film thickness gauging, impact test, cross hatch test, assorted solvent rub tests and pencil hardness test.



The QuikCAT Oven

Flameless Gas Catalytic, Long Wavelength

- Designed for low to high density infrared applications including solvent-based and waterborne wet coatings, powder coatings and ramp (booster) ovens.
- Custom configurations utilizing an array of standard modular heater sections profiled to the specific process and/or application.
- Programmable recirculation air systems with engineered internal discharge directional ducting.
- Two categories of high performance Cata-Dyne™ emitters, the WX Series (explosion-proof pads) for hazardous area applications and the G Series (hot pads) for non-hazardous area applications.
- Both the WX Series and G Series are CSA, FM and CE ATEX certified.

The QuikCONE Oven

Electric Ceramic, Long Wavelength

- Most effective on solvent-based and wet-based wet coatings with substrate temperatures requiring temperatures of 300°F and below.
- These economical ovens enjoy a large and historic market share in furniture and wood industry applications.
- Designed with an electric ceramic infrared generator consisting of nickel chromium resistance wire encapsulated in a cone shaped ceramic core.
- Versatile for lower temperature processing of three dimensional parts.
- The thermal mass of this type of long wavelength emitter technology translates to a highly effective and even infrared heat pattern onto the process object; unmatched by anyone in the market.



The QuikSILVER Oven

Electric Quartz, Medium Wavelength

- Custom designed for low to high density infrared applications which include solvent-based and waterborne wet coatings, powder coatings, adhesive setting, ramping ovens and coating curing requiring a high level of control.
- Allows for pinpoint control accuracy on heat sensitive substrates in continuous process finishing systems.
- Features a quartz tube infrared emitter constructed of a nickel chromium resistance coil wire encased in a translucent quartz cylinder. The emitter also features a proprietary rear side platinum primary reflector.
- The low thermal mass of the QuikSILVER medium wavelength emitter technology provides rapid response time and works in concert with Proportional Integrating Derivative (PID)/Silicone Controlled Rectifier (SCR) temperature control systems.
- Features a stainless steel mesh guard, protecting the quartz tubes without affecting the transfer efficiency of the medium-wave infrared heat to the substrate.



The QuikCOIL Oven

Electric Tubular Element, Long to Medium Wavelength

- Most effective in applications requiring surface temperatures in the 250°F to 450°F range, such as in solvent-based and waterborne wet coatings and powder coat finish systems.
- Versatile long to medium wavelength ovens are effective for both low and high energy density applications demonstrating ample input for powder curing and the finesse to cure liquid coatings.
- Features a large emissive surface area which provides simplified energy density patterning of complex geometry parts.
- Economical and user-friendly control package with all required components for safe and efficient operation of the oven system.
- Emitters contain robust incoloy tubular sheathed electrical resistance elements which have been engineered with exact watt density specifications to ensure consistent temperatures and optimum transfer efficiencies of the radiant heat from source to substrate.



The QuikLITE™ Oven

Electric Halogen, Short Wavelength, Low Density

- With its rapid response capability and standardized design, the QuikLITE™ oven can provide a cost effective quick curing solution for lower temperature applications such as solvent-based and water-based wet coatings and for dimensionally complex wood, plastics and composite substrates.
- SCR control allows for soft-start of the emitter in order to maximize bulb lifespan.
- Between the interior and exterior oven panels is an air distribution plenum that provides appropriate recirculation air distribution.
- Oven interior is made entirely of reflective stainless steel maximizing the radiant efficiency of this low energy density design.
- Designed with transparent quartz bulbs, containing tungsten (T-3) filament and a built-in high temperature ceramic primary reflector.



The QuikLITE™ QS Oven

Electric, Medium Wavelength, Low Density

- Effective on dimensionally complex wood, plastic and composite substrates and used for both solvent-based and water-based wet coatings.
- Rapid response times allow for SCR controlled temperature zoning providing thermal adjustability.
- Standard configurations consist of emitters in a horizontal position across the top, in a vertical position along the sides or a combination of the two.
- Designed as either batch type ovens or in-line continuous flow ovens.
- This oven contains a QuikSILVER electric quartz tube infrared emitter which is constructed of a nickel chromium resistance coil wire in a translucent tubular-shaped quartz cylinder. The emitter also features a proprietary rear side platinum primary reflector.



The QuikKILN Oven

Electric Halogen, Short Wavelength, High Density

- Provides high temperature coating curing processes including powder coating, high temperature wet coatings, polytetrafluoroethene (PTFE), ceramic composition (frit), porcelain, ceramic coatings, rapid dehydration, as well as sterilization applications.
- Has a high infrared energy density which dramatically reduces high temperature process times and does not require extended preheating like other high temperature ovens, kiln, or furnace technologies.
- The low thermal mass of this type of short wavelength emitter technology provides almost instantaneous input response time and works in concert with PID/SCR temperature control systems.
- The entire interior of the oven is deeply lined with refractory material and capable of processes up to 1,600°F (871°C).
- The PYRO T-3 halogen infrared tube technology has an integral proprietary ceramic primary reflector applied to the rear side of the tube and is mounted in a pressurized emitter fixture with self cleaning refractory frontal reflector construction.





QuikTAK Duster

Automated Final Tacking Pretreatment System

- Custom designed to perform the efficient repeatable removal of both particulate contaminants and static charges from products that will be coated, immediately before the coating process.
- Engineered to address both the part configuration and the substrate type, providing a significant increase in productivity.
- Tremendous reduction of labor requirements by successfully automating a manual step.
- This energy efficient, low maintenance solution is used extensively in the wood and plastic finishing industries where dust particles and static charges present serious impediments to the finishing process.
- The rotating duster wheel is constructed with ostrich feathers and is used in conjunction with low pressure or high pressure de-ionizing air bars to mechanically remove particulate contaminants.

QuikFLASH Tunnel

Electric Pre-Cure Flash

- A popular solution to cramped finishing and manufacturing areas by compressing the overall required flash cycle to 1/5th the typical air flash time on most wet coat finishes.
- Adjustable/programmable temperature control and impingement air velocity is available in the QuikCOMMAND control package.
- Manufactured in 3ft increments for a low cost and fast delivery solution.
- The Caloritech™ KX Finned Tubular Duct Heater is offered in a variety of kilowatts (15, 20, 30, 40 and 60) and voltages (240, 380, 480 and 600) for adequate heat control and convenient field wiring.



QuikCOOL Tunnel

Post Cure Forced Cool

- A fully contained forced air cooling solution typically used on high temperature and/or space constrained finishing lines.
- Air impingement via engineered distribution plenum and strategically positioned discharge nozzles.
- Designed and manufactured in 3ft increments for an affordable, yet effective, space saving solution.
- Powered exhaust containment and capture for excess heat removal, or heat reclamation is available upon request.
- The fully contained air chamber, complete with filtered intake, eliminates product contamination; as well as, employee annoyance and safety concerns that floor fans can create.



QuikCOMMAND Control Panel

Custom Engineered Control Packages

- Custom engineered control packages for complete finishing systems integration to simplify system operations and reduce project costs by consolidating entire system controls into a single operator friendly module.
- Complete integration of system components from part identification, through conveyors, booths, pretreatment washers, application equipment, lighting, ovens, E-stops, intrusion alerts, to process monitoring and reporting.
- Special features such as a spray booth which provides constant air flow/pressure balancing utilizing transducers and inverters.
- Programmable Logic Controller (PLC) based electronic control systems utilize state-of-the-art components, and benefits from our considerable experience with systems integration.
- Designed, built and certified in a variety of platforms to UL_C standards.





CCI Thermal
Technologies Inc.
Heating and Filtration Solutions



As a leader in advanced heating and filtration solutions with facilities across North America, CCI Thermal Technologies Inc. manufactures five 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 Harshesht 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 harshesht 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.

 **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.

 **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 Ovens

DriQuik™ is the market leader in infrared drying ovens and automated pre-finishing systems. DriQuik™ pioneered radiant oven technology in the 1930s and has since been setting the industry standard in infrared radiant heating systems and components for over 75 years.

 **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.

Visit www.ccithermal.com for detailed product information.

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