

A Division of CCI Thermal Technologies

Test Facility

We are committed to providing the best infrared products and systems, built to suit your process requirements. Our research and test center offers the most extensive range of opportunities to prove your process. If you require long, medium or short-wave infrared heat, our test facility can provide superior customer service and product excellence (see page 20 for further details).

Whether your specific test application requires powder coat or wet application, our state-of-the-art facility is designed to quickly and effectively create solutions. With nearly six decades of experience in both designing and manufacturing infrared ovens, we will transform your ideas into reality.

What is Infrared Energy?

Infrared radiation is a form of electromagnetic energy that is generated by the vibration and rotation of atoms and molecules within all objects with temperatures above absolute zero (0°Kelvin; -459°F; or -273°C).

Electromagnetic energy, which travels at the speed of light (186,000 miles per second), is comprised of waves that can be measured both electrically and magnetically.

Infrared (literally meaning “below” or “beyond” the red) is located between the visible and microwave portions of the electromagnetic spectrum and shares many of the same properties of visible light, except it has a longer wavelength. When infrared waves encounter a solid object they can be reflected (bounce off), diffracted (scattered), refracted (bent), transmitted (pass through), or absorbed by the object. Several of these effects can take place at the same time.

Infrared Curing of Coatings

Infrared curing, as occurs in an industrial oven application, applies radiant energy to the receiver, or part surfaces, by direct transmission from the emitter. Some of the energy emitted will be reflected off of the part surface, some will be absorbed into the coating and some is transmitted into the substrate. This direct transfer of energy creates an immediate reaction in the coating, quickly elevating the coating temperature. Cross-linking at the molecular level is rapidly enhanced once the surface is exposed to the emitter.

Why Use Infrared?

Infrared is smart. It heats only what needs to be heated – your product or its coating, not the surrounding air.

Infrared is direct. It takes less time and energy to do the job. **Infrared is versatile.** It handles a huge variety of finishing applications, from oddly shaped and configured pieces to demanding substrates and tricky coatings.

And, **infrared is environmentally friendly**, helping you surpass today’s ever-tightening standards.

What Does This Mean to You?

- Higher production rates
- Lower operating costs
- Minimal equipment footprint
- High quality parts

Customer Care

DriQuik™ provides unparalleled customer service and support. From on-site start-up to ongoing technical assistance, you can be assured that our coating experts will be there any time you need. With decades of experience and a commitment to quality, you can be certain that the DriQuik™ team will provide the best solution to your curing needs – the first time.

