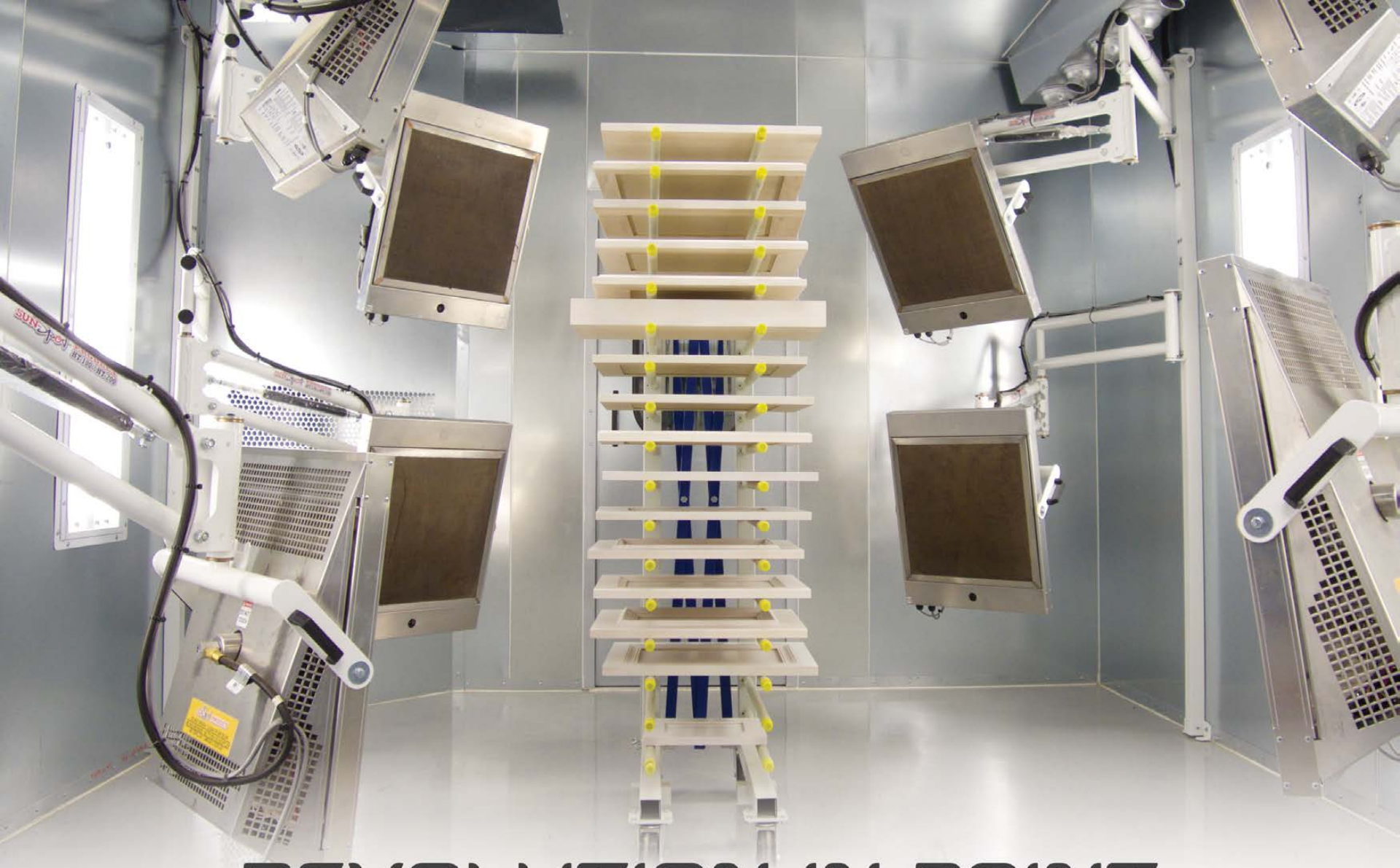
GF MODEL PRODUCTS

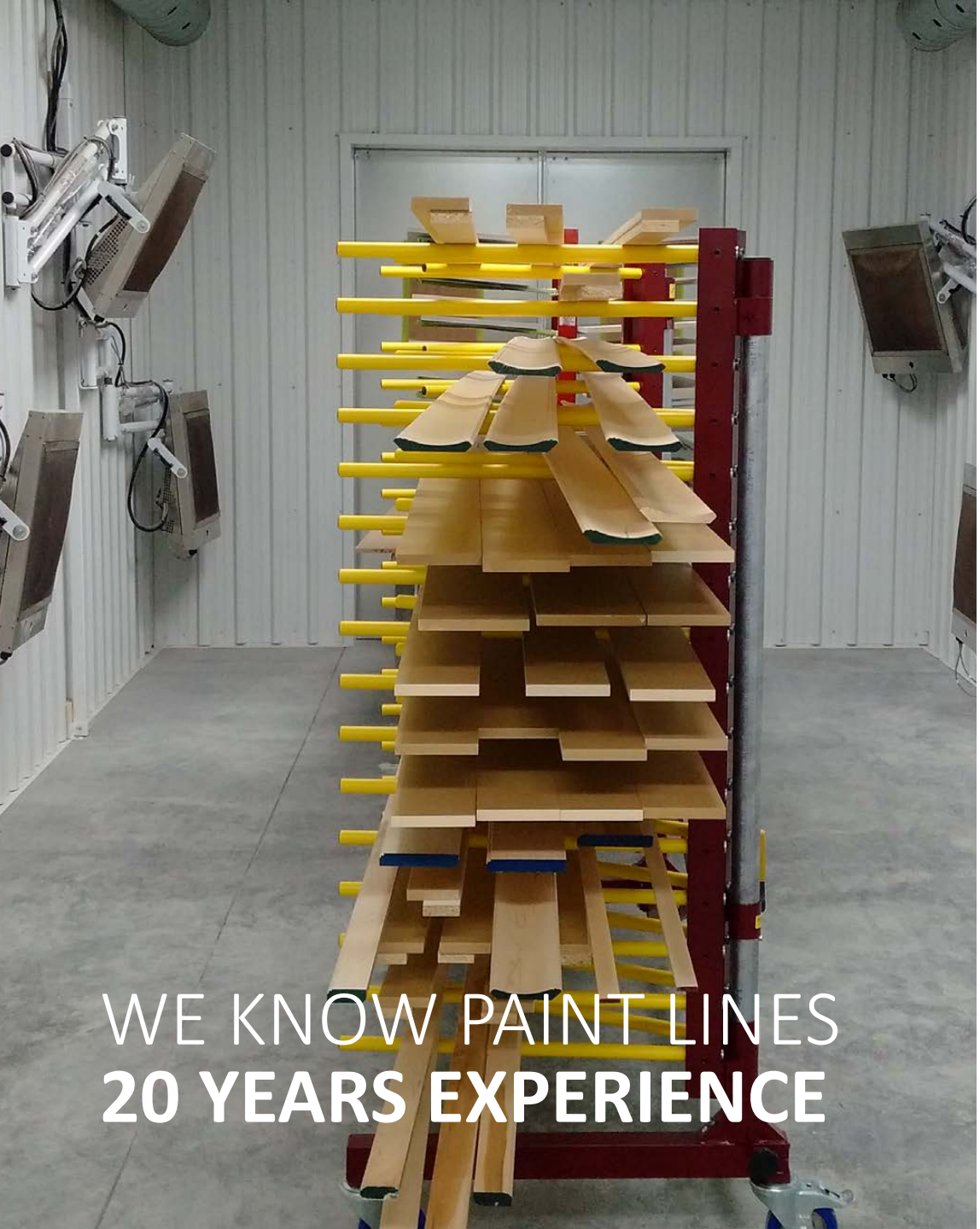
CATALYTIC PAINT DRYING SYSTEM

GFC
GREEN-FAST-CURE



REVOLUTION IN PAINT DRYING SYSTEMS

Paint Line Engineering Services | Turnkey Projects



APPLICATIONS:

- Aerospace
- Automobile
- Composite Material
- Plastics
- Fiber Glass
- Industrial Steel and Woods
- Woods
- Windows and Doors

ORGANIC COATINGS:

- Acrylic
- Alkyd
- Epoxy
- Glue
- Lacquer
- Powder Coating
- Polyester
- Sealant
- Urethane
- Water Base

FEATURES OF OUR PRODUCTS

CONTROL PANEL

Easy to use, controlled by the pyrometer

Control panel adjusts the ramp time, curing temperature and time, sequential and continuous operation mode and is conveyor interlocked.

INFRARED CATALYTIC PAD

20" x 20"

The infrared catalytic pad can move both ways; Up-Down and Left-Right.

FLEXIBLE ARM SYSTEM

60" span and 180° rotation

Operators can quickly and efficiently adjust direction of the infrared catalytic pad.

PYROMETER

Each thermo heating head is equipped with pyrometer.

Read and control the surface temperature to avoid overheating with an accuracy of +/- 3° Fahrenheit.

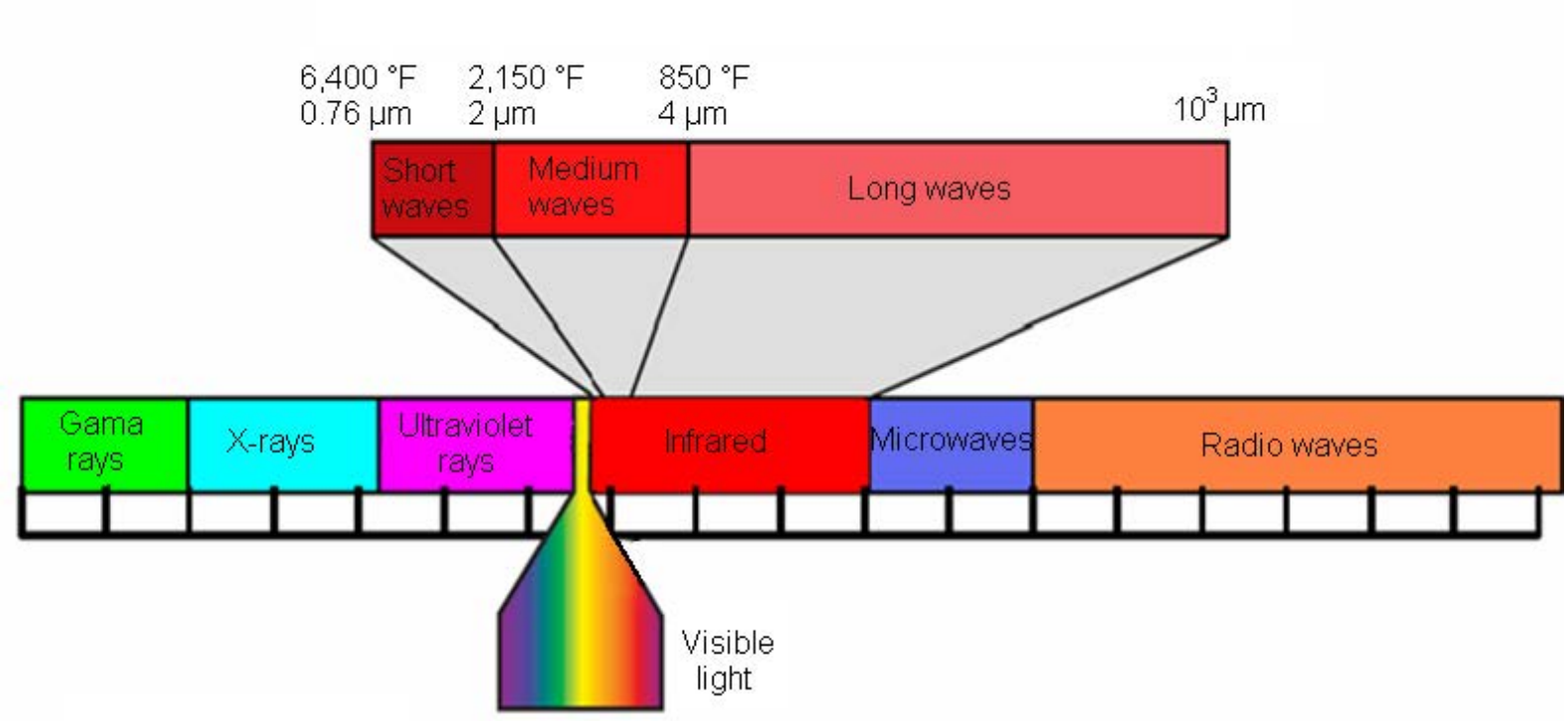
PLUG-N-PLAY

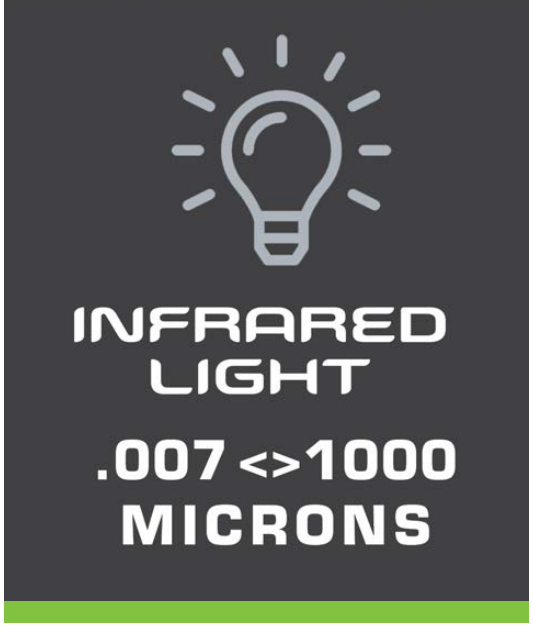
Our products are CSA International approved, which means that they are certified as safe, effective products. With 240V outlet and a gas line, you can start using our products within a few hours.

ELECTROMAGNETIC SPECTRUM OF ENERGY

Infrared is a part of the electromagnetic spectrum that describes the various types of electromagnetic energy based on wavelength.

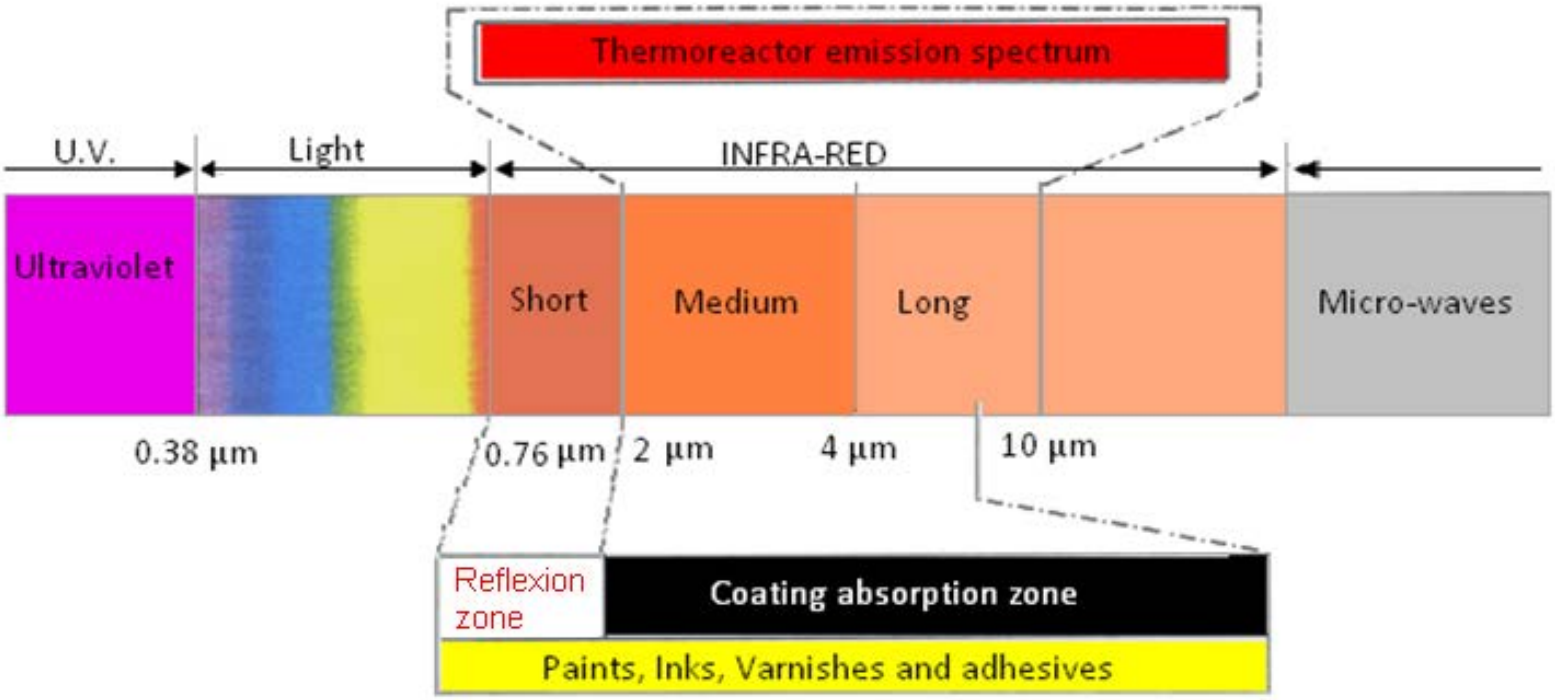
Note: Infrared short waves generate tremendous amount of heat.





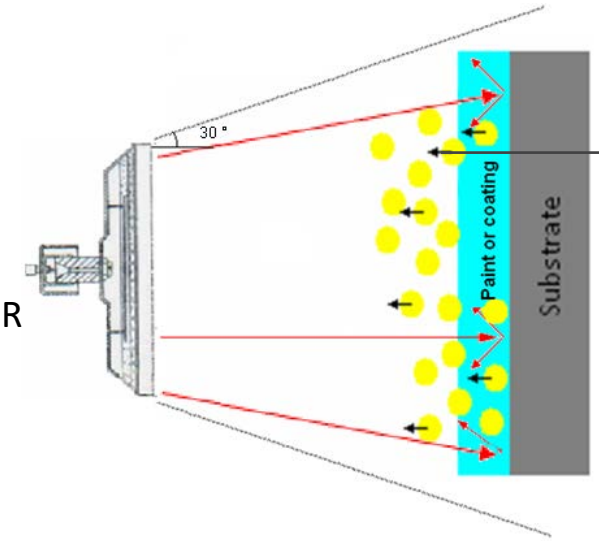
INFRARED WAVE LENGTH CHARACTERISTICS

Infrared is an invisible radiant wave length of energy between 0.07 and 1000 microns. It lies just beyond visible light, what is called the red side of the radiant spectrum.



HOW IT WORKS

The GFC technology uses a mixture of fresh air and gas fuel to provide an oxygen rich atmosphere for better oxidation of the fuel and to generate the amount of “amplitude” power necessary to reach long distances with the effective infrared for curing application.



VENTURI/
GAS INJECTOR

SOLVENT/WATER
(IN YELLOW) MERGE OUT OF THE PAINT

This air/gas system provides many of the advantages of the GFC products.

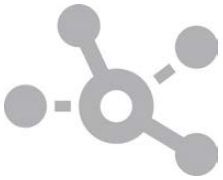
The “pressure” design into the injector system maintains the amplitude to allow the GFC products to have the necessary power of infrared distances from **3 to 5 feet.**

INFRARED INFORMATION

The GFC thermos heating heads are not affected by air movement. Even if you move air around the unit, the wavelengths are still as effective.

GFC Products can cure almost any coating.

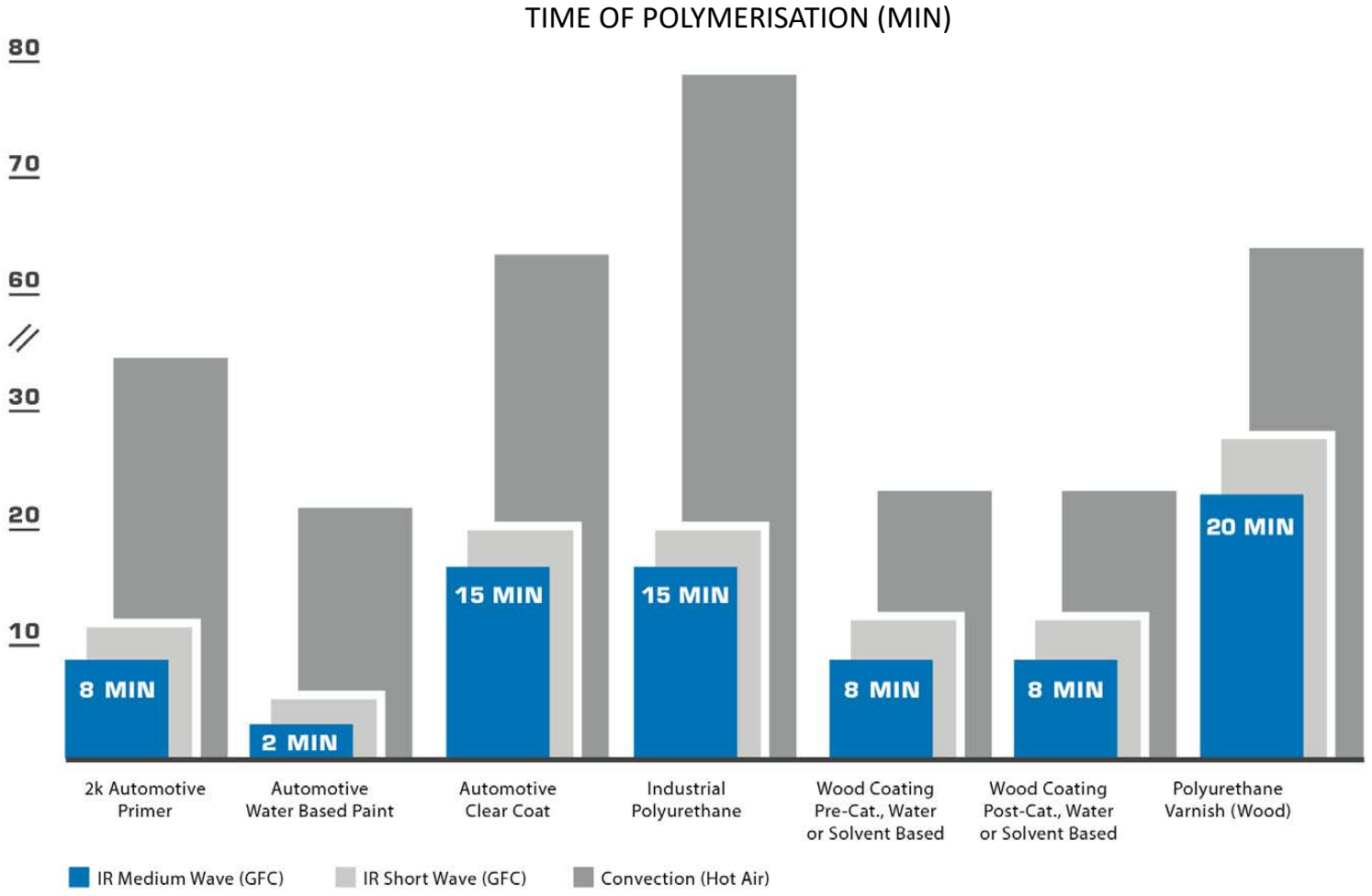
One stage paints, base coat water based or solvent based, clear coats, plaster, polyurethane, vinyl or polyester make no difference for the efficiency of the GFC systems.



Working at the molecular structure of the product allows reducing the risk of solvent popping, pin holes and other problems caused by force curing.

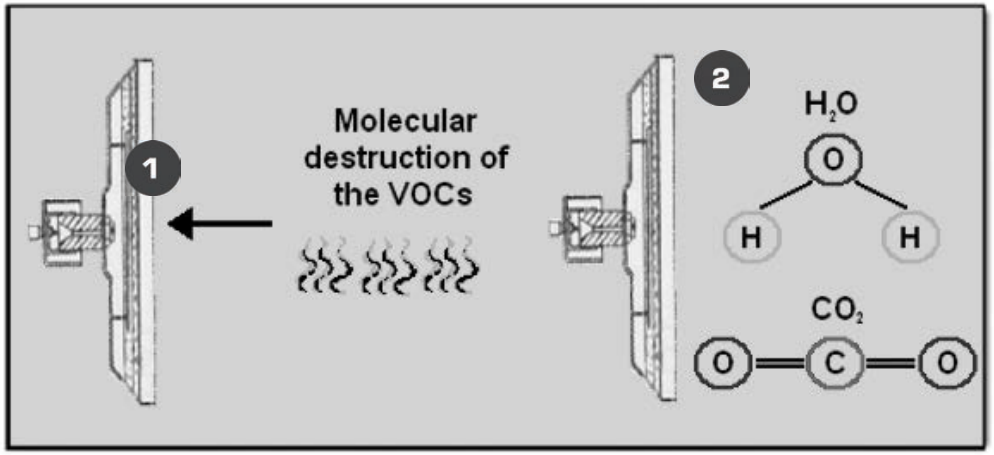
CURING TIME

GF2 MODELS VS. IR SHORT WAVE AND CONVECTION



ENVIRONMENTAL FACTS

GFC CATALYTIC PAD



1 CONTACT WITH CATALYTIC PAD

With the GFC catalytic technology the VOCs (Volatile Organic Compounds), the solvents and many other polluting chemical compounds are decomposed at molecular level and transformed for the most part in water vapor (H2O) and carbon dioxide (CO2) as soon as they come in contact with the catalyst surface.

2 DECOMPOSITION

Catalytic combustion of natural or propane gas generates exclusively carbon dioxide (CO2) and water vapor (H2O) without emission of carbon monoxide (CO), nitrogen oxides (NOx) and unburnt hydrocarbons (HC).

INSPIRATION AND INSTALLATIONS

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BENEFITS OF USING GF2 UNITS

COST OF CONSUMPTION
Continuous operation uses less than $1 per hour for run time.

ENERGY SAVINGS
Currently infrared technology is 70% to 80% more efficient than convection.

REDUCES DRY TIME
Automotive water based paint dries in as little as 2 minutes.

OTHER KEY BENEFITS
Based on gas consumption for the GF2 unit (2 heads):
One 5 gallon propane canister provides **41 hours continuous operation** at 120°.

Each GF2 heating head is equipped with a pyrometer. They read and control the surface temperature (subtract) with an **accuracy of +/- 3°F** to help avoid overheat.

BENEFITS OF USING GF2 UNITS

Patented and approved CSA International.

The systems are very flexible, they can be used in any kind of environment. Saves floor space, reduces the space required for drying.

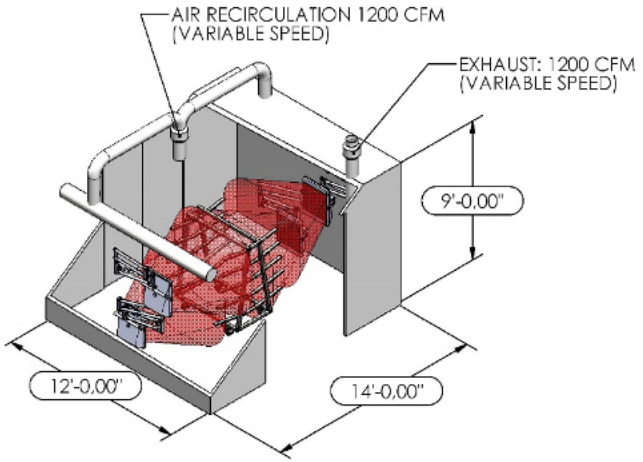
Easy to install (Plug-N-Play).

GFC products can easily be installed on or in any existing ovens or drying rooms.

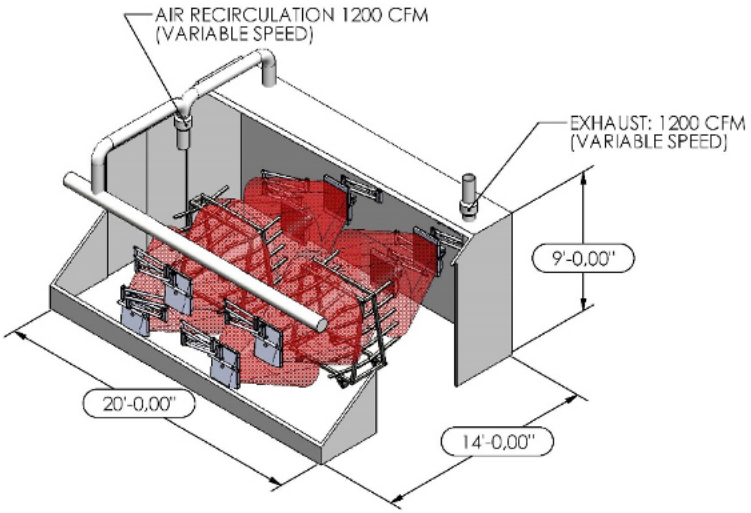
GFC products need very little or minimal maintenance and have a life span of 15 to 20 years.

BATCH OVEN SAMPLES

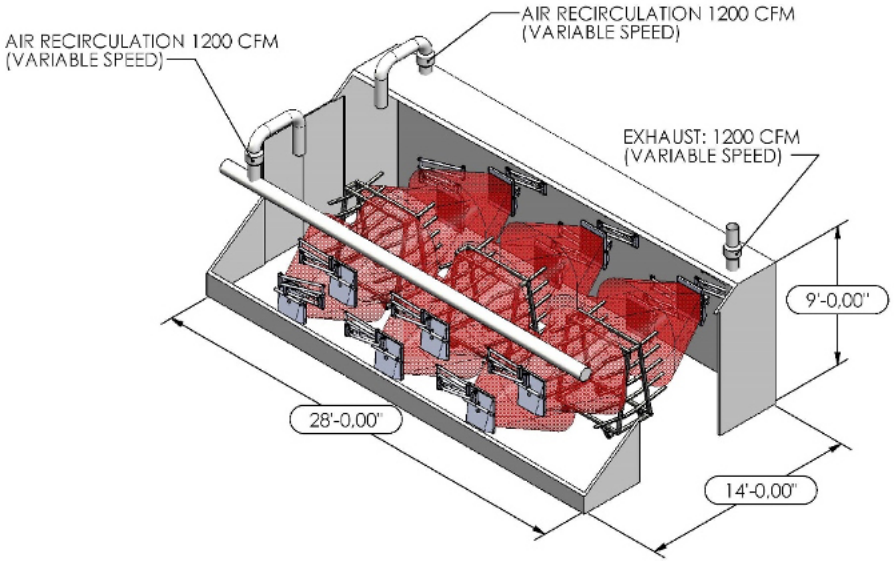
EXAMPLES OF DRYING BOOTH SIZES



12FT BOOTH (2X GF2 UNITS)



20FT BOOTH (4X GF2 UNITS)



28FT BOOTH (6X GF2 UNITS)

REACH US AT 1.866.GFC.OVEN

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