

Shortwave Infrared Paint Curing System

Product Description

Generally speaking the higher the temperature the shorter the wavelength produced. The difference between the three types (long, medium and short) is in the depth of penetration through the paint film (in automotive applications) and excitement of the molecular structure. The advantage of using infrared is that it only heats objects that are placed in its path, directly focusing energy where it is needed. Infrared equipment causes molecular excitement both in the paint and in the substrate which in turn causes heat to pass back through the coating via conduction. The use of shortwave infrared is in fact triggering two way curing using radiated energy from the surface and conduction from the substrate and it is this effect that produces such good through curing. Shortwave produces high temperatures that dramatically accelerate the curing/drying process, unlike the traditional method where the cured paint could not be skinned. This trapped solvent will produce a solvent pop (a pinhole effect) in the finish. Another benefit is that infrared is much more efficient than convection, and it is this combination of fast, high quality curing with low running costs that make our units stand out.

Features

- ◆ Made from aluminium alloy and 304 grade bright stainless steel reflectors.
- ◆ Equipped with VPOWER' s 21" quartz short wave infrared halogen lamps (Optional PHILIPS lamps available).
- ◆ Automatic device, equipped with LED electronic timer and power settings.
- ◆ Hydraulic lifter with independent switch and 360° rotation.
- ◆ With pulse ultrasonic paint curing function.
- ◆ Power supply of 200-400V, 50/60Hz and 3×1100W.
- ◆ Curing area of 1200mm ×1000mm.
- ◆ Adjustable temperature range of 40°C-100°C.
- ◆ Adjustable timer of 0min-99mins.
- ◆ Temperature setting is available.
- ◆ Automatic overload protection.
- ◆ Each emitter can be independently controlled.

New Solution

Reduce energy costs by up to 75%.
Longest cure time of no more than 15 mins.
Penetrates deeper into an object, giving better quality curing.
Paint cured within minutes, without residue.
Preheating function, anti-moisture and anti-fog.
Operate more effectively
Shorter downtime.
Reduced polishing.
All of these advantages improve your productivity and reduce your operating costs.



FY-3W