

# INFRARED Paint Curing Systems

With the advent of regulations controlling paint product emissions, water based and high solids paint products are becoming more and more commonly used in automobile repairs. These new paints and repair products require longer drying times with traditional drying/curing methods.

**Infrared (IR)** solves this problem by **DRAMATICALLY** reducing Curing times and costs.

## INFRARED - PROVEN TECHNOLOGY

**INFRARED** is different from other curing methods in many ways. It dries or cures by penetrating through the wet coating and heating the layers underneath. A "bottom up" cure or "curing from the inside out" is superior to the "top down" process associated with other curing methods in that it produces a more thorough cure, and more heat can be applied without fear of skinning and solvent popping.

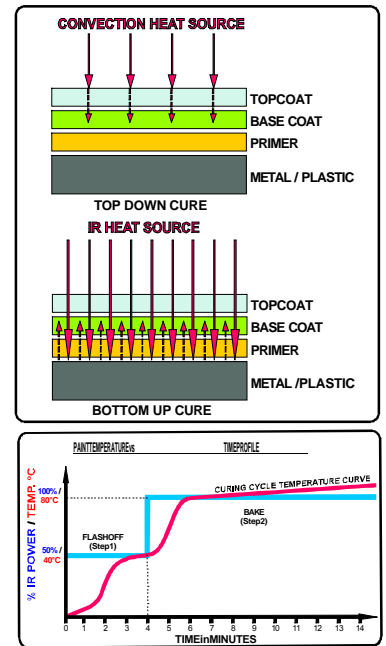
**INFRARED's** higher and focused heating energy reduces cure times while improving quality. Reduced curing times results in less time for dirt to settle on the wet surface.

## INFRARED IN PRACTICE

In order to achieve the optimum curing of the paint repair products it is necessary to control the infrared energy so that overheating, solvent boil and other heat related paint defects are avoided.

Control is effected by maintaining a fixed distance during the curing cycle as well as ensuring that the temperature of the paint follows the two step cycle as indicated in the diagram on the right.

Adherence to the temperature curve is achieved through using time and power control, and positioning the IR at a fixed distance. The first step is the FLASH OFF at 50% IR power which is necessary to remove all the solvents before full BAKE starts. At 50% power and the correct distance from the paint surface the solvents are unlikely to boil. After the preset period ends (usually 4 minutes) the BAKE period starts at 100% IR power and ends after the preset period has been reached (usually 8-10 minutes). Once FLASH OFF has occurred 100% of the IR power can be safely applied. Our custom designed controller achieves all of this.



## Hotbox



The HOTBOX cures colour matching test plates. It can be located next to the paint colour matching/mixing system. It will help to save time and energy costs.

### Features:

- ! Maximum area that can be cured - 100mm x 120mm
- ! Power - 150W

## Econocure®

The **ECONOCURE®** accommodates the budget without compromising functionality. The drying of primers, colour coats, top coats, body fillers and adhesives can all be efficiently dried or cured.

### Features:

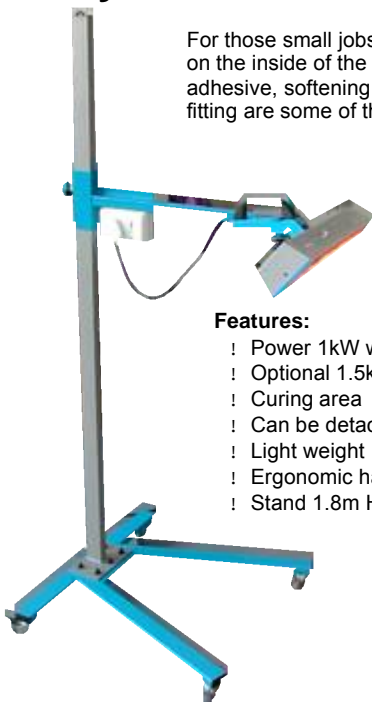
- ! Curing area - 700mm x 600mm
- ! Stable and mobile system
- ! Adjustable height from 0.2m to 1.8m
- ! Maximum Horizontal reach of 800mm
- ! Single Adjustable timer sequence



### The Econocure Range

- ! 3kW 220 Vac with dual timer & 50 - 100% power control

## Handycure



For those small jobs, especially touch ups on the inside of the auto body. Curing adhesive, softening plastic parts to ease fitting are some of the many applications.

### Features:

- ! Power 1kW with RC SW Element
- ! Optional 1.5kW RR SW Element
- ! Curing area - 100mm x 350mm
- ! Can be detached from stand
- ! Light weight
- ! Ergonomic handle for user comfort.
- ! Stand 1.8m High

# Procure®

The **PROCURE®** accommodates both budget and the professional functional requirements of the automotive body repair industry. The **PROCURE®** can reach all the possible areas of a repair including high vehicles such as 4x4's and panel vans.



## • Features:

- Maximum area that can be cured:  
3kW Unit:- 700mm x 600mm
- Stable and mobile system - rear castor wheels have brakes for added stability
- Adjustable height from 0.2m to 2.5m
- Dual Adjustable timer sequence for flash off and bake
- 50 - 100% Power settings for both flash off & bake periods
- Maximum Horizontal reach of 1200mm

## The PROCURE Range

- ! 3kW 220 Vac with dual timer & 50 - 100% power control

# Supercure

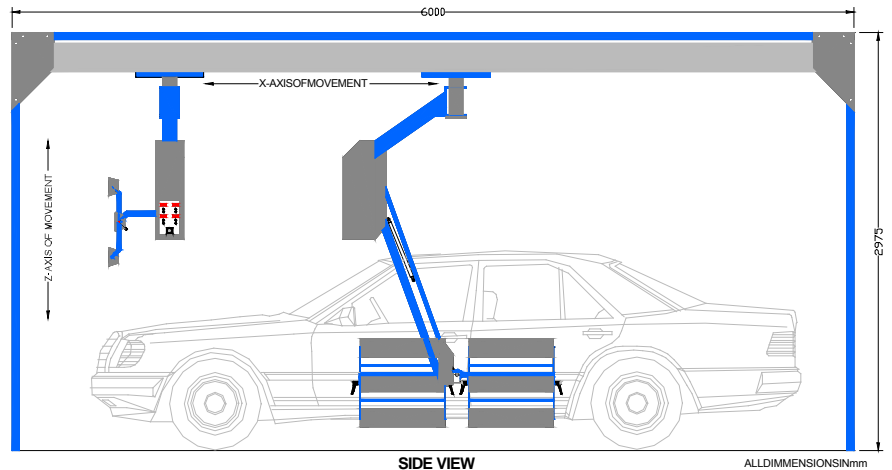
The Supercure® is a fully fledged professional paint curing system. The system can reach all the possible areas of a repair including high vehicles such as 4x4's and panel vans. The system runs from an overhead rail system which folds away neatly allowing for more uncluttered work space. In addition the rail systems allows for larger heating banks so that larger area's can be cured at one time.

## Features:

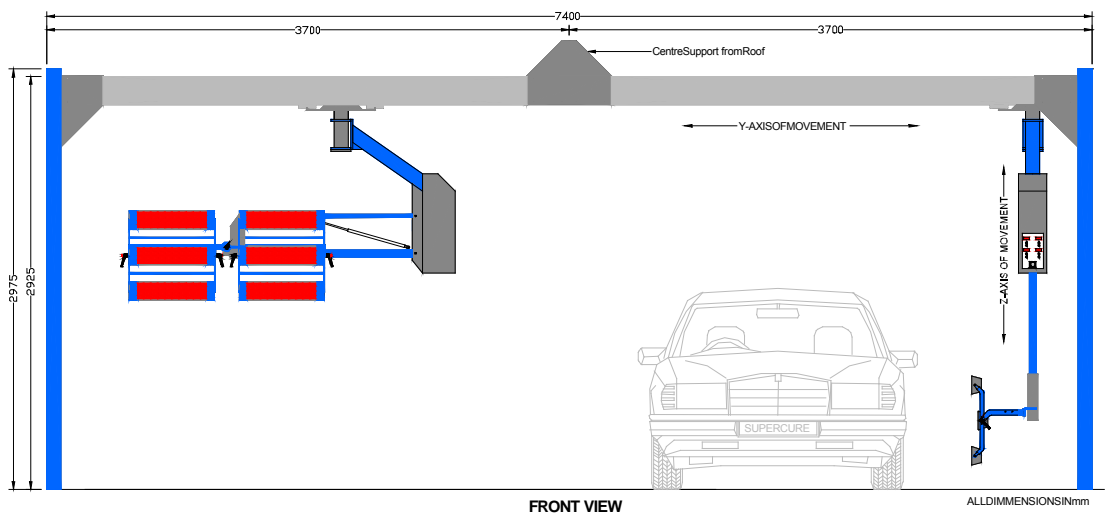
- ! Maximum area that can be cured:  
3kW Unit:- 600mm x 600mm  
6kW Unit:- 1800mm x 600mm
- ! All heater banks hang on easy-glide, self balancing cassette arms
- ! Adjustable height from 0.2m to 2.5m
- ! Dual Adjustable timer sequence for flash off and bake
- ! 50 - 100% Power settings for both flash off & bake periods
- ! Alarm signal for end of cycle
- ! Can reach any exterior area on repair vehicle
- ! Cassettes can be adjusted for curing corners and edges

## Supercure Range

- ! 3kW 3phase 220Vac + Neutral - 1 set of 3 Heater Cassettes
- ! 6kW 3phase 220Vac + Neutral - 2 sets of 3 Heater Cassettes



Diagrams show two open bays with two 6kW IR systems



## Typical Curing Times:

- ! Primer - 6-8 Minutes
- ! HI Build 10-12 Minutes
- ! Solid Colour - 11 Minutes
- ! Clear Coat - 12 Minutes
- ! Filler/Stopper - 5-7 Minutes
- ! Waterborne Primer - 8-10 Min
- ! Water Bourne Base Coat - 5 Min.

Pleas note the above times are

E&OE

## DISTRIBUTED BY:



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