



**PROCESS SOLUTIONS
YOU CAN COUNT ON**

iCure SERIES

INFRARED CURING OVEN

Features & Benefits

- The perfect thermal insulation design uses new thermal insulation material in oven
- Multi-zone independent temperature control, the upper temperature zone of the oven can adjust the heating distance (50 - 150mm)(1.97"-5.91") according to the product height, reduce energy consumption
- Temperature control accuracy is $\pm 5^{\circ}\text{C}$

Product Description

iCure is a compact, inline Infrared (IR) curing module suitable for high volume, rapid curing of heat curable coatings, adhesives and inks.

The SMEMA height upper conveyor provides first side curing operation while the lower level conveyor provides curing for the Pallet/PCBA inverted state resulting in a 100% reduction in factory oven floor space.



Curing zone with heating tube and reflector



Power switch box for the control of curing oven

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Specifications :

System Specifications

iCure-2 / 3 / 4 Infrared Curing Oven

Transmission system	
Component Height	± 100 mm (± 3.93")
Board / Pallet Width	50 - 460 mm (1.96" - 18.11")
Process Flow	L to R
Conveyor Height	900 ± 20 mm (35.43" ± 0.79")
Conveyor Speed (XY)	0.5 - 5 m/min
Convery Width Adjustment	Manual
Max. Loading	4 kg/m at even distribution
Temperature Configuration	
Number of Heat Zone	2 / 3 / 4
Temperature Control Range	Room temperature - 100 °C (adjustable)
Heating Zone Power	600W × 7 heat tubes at each zone
Temperature Stabilization Time	10 minutes
Temperature Control Accuracy	± 5 °C
Facility	
Standard Footprint	L 2000 / L 3000 / L 4000 × D 1070 × H 1300 mm (L 78.74" / L 118.11" / L 157.48" × D 42.12" × H 51.18")
Weight	400 kg / 700 kg / 1000 kg (iCure-2 / iCure-3 / iCure-4)
Input Power	3 Phase 380VAC (Standard) 208/480VAC with transformer (Optional)
Exhaust Requirement	5 m ³ /min
Total Power	9 KW / 13 KW / 18 KW
Interface	
Controller	PLC and touch screen
Communication Protocol	SMEMA

Standard Features

- PLC and touch screen control
- Edge carrying, variable speed pin chain conveyor
- Multiple, independently controlled infrared (IR) heat zones operation
- Rail expansion compensation
- SMEMA communication protocol
- 100 mm top and bottom side component clearances
- Thermal couple process control
- Independent heating zones

Optional Features

- Return conveyor
- Return conveyor heating
- Under conveyor heating

