

IR/Convection Cure Module

Flexible IR/convection module for conformal coating applications in Europe

Features and Benefits

- **Individual heating zones can be programmed for specific drying or cure profiles**
- **SMEMA-compatible conveyors allow smooth integration into existing production lines**
- **Multi-language user interface allows easy access to oven features**
- **Easy access for preventive maintenance and cleaning**
- **Safe evacuation of volatile materials with customer-supplied exhaust venting**
- **CE certified**



The IR/convection cure module is ideal for mid- to high-volume production. The oven features precise control of conveyor speed and internal thermal environment. Infrared panels and exclusive heat dispersion plates transfer heat by convection.

The Windows® CE-based user interface includes multi-language software, alarm log and event history, auto-diagnostics, Help files, and the ability to store over 100 profiles. A touch-screen monitor makes it convenient to operate.

The ovens accommodate substrates that contain tall components on both top and bottom sides. The SMEMA-compatible chain conveyor allows double-sided board processing, and can be easily integrated into existing conformal coating lines. The conveyor's left-to-right workflow can be manually adjusted.

The oven's easy-access design makes it possible to dismantle and replace heating elements and convection units in under five minutes. The ventilation system allows safe, efficient evacuation of volatile materials with customer-supplied external exhaust venting.

Specifications: IR/Convection Cure Oven

Parameter	TC-2400	TC-3000	TC-3600	TC-4800
Number of heating zones	6	6	10	10
Heating length	2,400 mm (94.5 in.)	3,000 mm (118.0 in.)	3,600 mm (141.7 in.)	4,800 mm (189.0 in.)
Overall length	3,200 mm (126.0 in.)	3,800 mm (149.6 in.)	4,400 mm (173.0 in.)	5,600 mm (220.5 in.)
Width	1,250 mm (49.2 in.)	1,250 mm (49.2 in.)	1,250 mm (49.2 in.)	1,250 mm (49.2 in.)
Height excluding monitor and light beacon	1,380 mm (54.6 in.)	1,380 mm (54.6 in.)	1,380 mm (54.6 in.)	1,380 mm (54.6 in.)
Gross weight	1,930 kg (4,255 lb)	2,350 kg (5,181 lb)	2,650 kg (5,642 lb)	3,020 kg (6,658 lb)
Voltage	400 VAC, 3-phase, 5-wire	400 VAC, 3-phase, 5-wire	400 VAC, 3-phase, 5-wire	400 VAC, 3-phase, 5-wire
Power input	34 kW	38 kW	44 kW	56 kW
Exhaust requirements*	700 m ³ /hr (412 CFM)	750 m ³ /hr (441 CFM)	800 m ³ /hr (471 CFM)	1000 m ³ /hr (589 CFM)
* Customer-supplied exhaust requirements @ 40 mm (1.6 in.) water column, T= 90 °C				
Use <i>low</i> conveyor speed when cure time is:	6.0 to 30.0 min	7.5 to 37.5 min	9.0 to 45.0 min	12.0 to 60.0 min
Use <i>standard</i> conveyor speed when cure time is:	2.9 to 14.5 min	3.6 to 18.2 min	4.4 to 21.8 min	5.8 to 29.1 min
Use <i>high</i> conveyor speed when cure time is:	1.6 to 8.0 min	2.0 to 10.0 min	2.4 to 12.0 min	3.2 to 16.0 min

Thermal Environment

Maximum process temperature: 250 °C

Process profile repeatability: ±5 °C

Heat-up time: 30 minutes (includes stabilization)

Conveyor

Board width: 50 to 457 mm (2 to 18 in.)

Contact factory for widths up to 480 mm (18.9 in.)

Board clearance (above and under): 100 mm (3.9 in.)

Standard speed: 165 to 825 mm/min (6.5 to 32.5 in./min)

*Contact factory for speeds of 80 to 400 mm/min (3.2 to 15.8 in./min),
or 300 to 1500 mm/min. (11.8 to 59.1 in./min.)*

Pin/chain conveyor: 5 mm (0.2 in.)

Conveyor height: 900 to 980 mm (35.4 to 38.6 in.)

SMEMA: compliant

Other Standard Features

Light beacon, portable computer control system, touch screen

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