



MYSmart™ series Infra-Red curing



High-productivity, high precision
InfraRed-curing ovens

MYCRONIC

When passion meets innovation ●

Introducing MYSmart curing

High performance

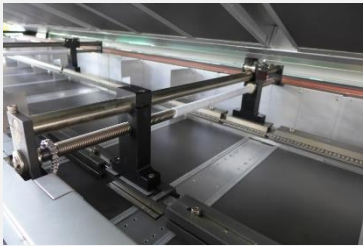
Infra-Red curing ovens

The in-line MYSmart series IR curing Ovens are ideal for medium to high-volume production. The cure chambers achieves a thermally uniform atmosphere with IR heat panels and consequent convection by induced exhaust draft. In a CE-compliant package, process uniformity is assured with precise, independent temperature-controlled heat zones. Rapid response times, a closed-loop conveyor and Windows 10-based software are an integral part of the thermal cure control process.

- 1 Ideal for conformal coating applications
- 2 Fast warm-up and cool-down
- 3 Integrated board profiling capability, no external hardware required
- 4 Comes with popular temperature profiling software tools
- 5 Exhaust sensor prevents heaters from turning on without proper exhaust ventilation enabled
- 6 Flat panel monitor
- 7 Unique downdraft exhaust design provides an efficient path for VOC removal



MYIR in-line features



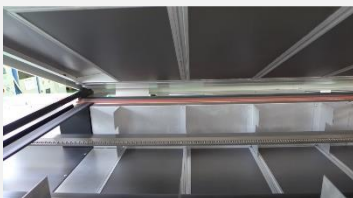
Standard features:

- Intel Core industrial PC with Windows 10
- KIC/ECD profiling software
- 3-color light tower
- Auto lubrication
- SMEMA compatible
- Board drop sensor
- Board counter
- Casters (for easy manoeuvring)
- Entry and exit conveyor extensions with cooling module on exit side

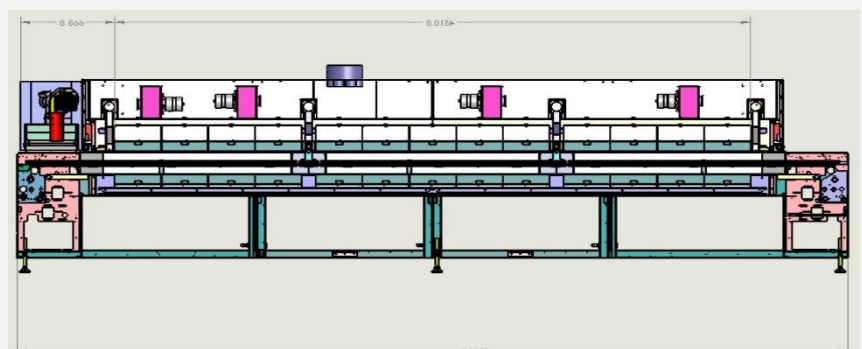


IR panels:

The IR panel heater's radiant surface is constructed through a patented process which bonds together quartz fabric with a ceramic fiber coil support using a special high temperature cement.



- Advantages:
Uniform IR coverage: each pass of the resistance coil is surrounded by 3 walls of refractory board, and still more insulation behind that. As a result the majority of its IR energy is directed over the process with great uniformity.
- Wavelength range:
The IR panel is a medium wave heater. Micron levels between 2.4 and 6.0 of infrared energy are generated. At these micron levels the majority of the infrared energy generated falls into the medium wave section of the infrared spectrum.



MYIR in-line specification

Dimensions	MYIR1700	MYIR1800	MYIR1900
Heated length	2184 mm	3251 mm	4521 mm
Total length	3404 mm	4445 mm	5690 mm
Heating zones	7	10	13
Typical net weight (approx.)	1134 Kg	1588 Kg	1814 Kg
Run current at 400 VAC, 50Hz	25 – 30 Amp	30 – 35 Amp	46 – 51 Amp
NOTE: Typical start-up current is 1.5 times maximum run current. Recommended breaker size is 63-100Amp			

Heating area	
Heater temperature range:	25 to 350°C (77 to 662°F)
Heater control stability:	± 1°C (± 1.8°F)
Cross conveyor temperature tolerance:	± 5°C (± 9°F)
Profile change time:	5 to 15 minutes
Typical cold start heat-up time:	30 minutes

Conveyor	
Speed:	100 to 600 mm/min (3.9 to 23.6 in/min)
Product width:	51 to 508 mm (2 to 20 in.)
Top board clearance:	89 mm (3.5 in.)
Bottom board clearance:	89 mm (3.5 in.)
Conveyor edge clearance:	4.8 mm (0.187 in.)
Conveyor height:	940 mm ± 51 mm (37 in. ± 2 in.)
Direction:	Left to Right

Facility requirements	
Voltage:	480 VAC, 3 phase, 50/60Hz (field configurable to 380/415/440VAC)
Exhaust (customer supplied):	0.35 m ³ /sec @ 38.1 mm water column (750 CFM @ 1.5-in. water column)

Safety features	
Standard safety features:	Exhaust monitoring sensor, start-up delay, down draft exhaust design

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