

# Curano II Oven

IR / Convection Oven for Conformal Coating applications in European regions

The Curano II is ideal to cure adhesives and conformal coatings for low- to high-volume production in a controlled heated environment. Available as short or long version and with configurable interior, the Curano II IR / Convection Oven is perfectly adaptable to your production requirements.

## Key Features

- Compatible with all Nordson coating and dispensing equipment
- SMEMA compatible
- CE-certified
- Built-in temperature profile
- Pressurized bottom section with Safety Flow Sensor Control
- Easy access to interior subassemblies
- 3-color Light Tower (red, yellow, green)
- Controlled by industrial PC 104 with Linux OS
- 17" monitor
- RS232 interface for computer connection
- USB interface
- LAN connection
- Manufactured and shipped in Europe

## Consistent performance

The heated tunnel, with 4 or 8 independent temperature-controlled curing zones, achieves a thermally uniform atmosphere with IR heat panels and consequent convection. The individual heating zones can be programmed for specific drying or curing profiles, creating temperatures up to 320°C. Not only does the Curano II provide optimal process uniformity, it also ensures a safe working environment in case of solvent based flammable materials.



| Parameter                  | Curano II 2200                 | Curano II 4200                 |
|----------------------------|--------------------------------|--------------------------------|
| Number of heating zones    | 4                              | 8                              |
| Heating length             | 2200mm                         | 4200mm                         |
| Overall length             | 3026mm                         | 5096mm                         |
| Overall width              | 970mm                          | 970mm                          |
| Height (with light beacon) | 1866mm                         | 1866mm                         |
| Weight (without crate)     | 800kg                          | 1600kg                         |
| Voltage                    | 400 V / 3 Ph + N + GND 50 Hz   | 400 V / 3 Ph + N + GND 50 Hz   |
| Power input                | 8.5Kw                          | 17Kw                           |
| Exhaust requirements       | 400 m <sup>3</sup> /h required | 600 m <sup>3</sup> /h required |

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## Thermal Environment

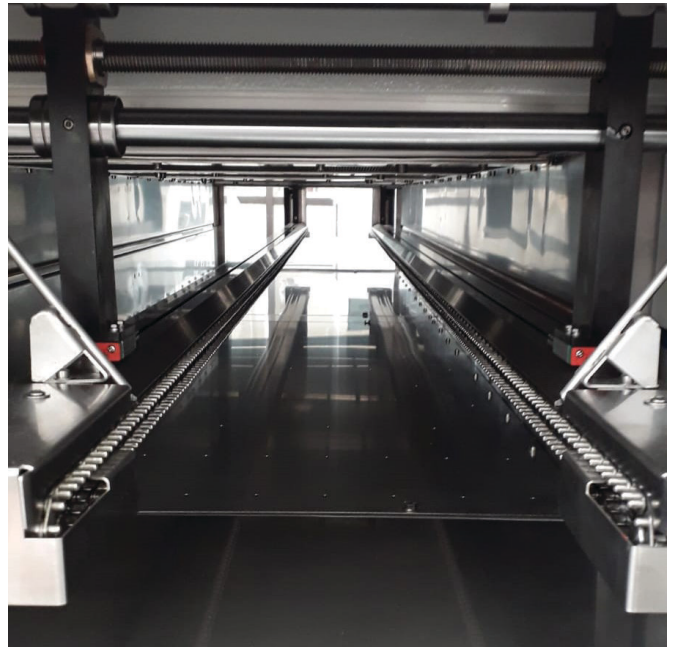
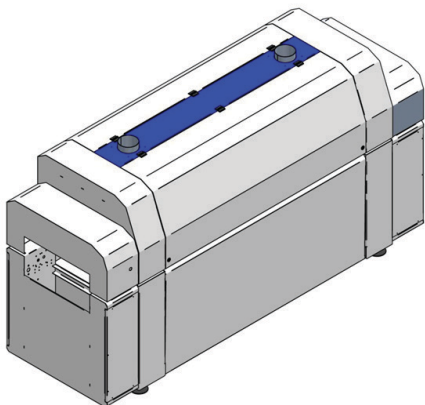
|   |            |
|---|------------|
| Maximum heating temperature:              | 320 °C     |
| Process profile repeatability:            | ±5 %       |
| Heat-up time:<br>(includes stabilization) | 30 minutes |

## Conveyor

|                                    |               |
|------------------------------------|---------------|
| Board width:                       | 50-405 mm     |
| Board clearance (above and under): | 120 mm        |
| Standard speed:                    | 0-150 cm/min. |
| Pin/chain conveyor:                | 3 mm          |
| Conveyor height:                   | 840-940 mm    |

## Monitoring and controlling the curing process

The Curano II offers exact control of all heating zones and total performance consistency. An industrial Linux PC is used to program, run and display each profile. Software permits unlimited temperature profiling in real time, continuous process status updates and program storage. The Curano II offers a high degree of flexibility and profile control, enabling the user to run a large variety of products with fewer profiles. Uniform heating and high repeatability will be maintained under various load conditions - including load / no load.



Conveyor

## Additional options

- Bottom Curing
- Automatic width adjustment: The oven will adjust the conveyor width automatically when loading a curing recipe
- Outlet Cooling fans: Air curtain cooling down the PCBs at the oven outlet
- PCB Counter: to show graphically the PCBs moving inside the tunnel
- Remote Control: to control the oven process from a remote computer
- Conveyor chain auto lubrication kit
- Process parameters ext.: to export all relevant information about the curing process to txt or csv format
- Conveyor right to left
- 5mm pin/chain conveyor