Select Cure® UV-9 Cure Oven
For Conformal Coating Applications

Features and Benefits

- Oversized lamp ensures uniform intensity profile
- Adjustable power levels
- Runs cooler to extend the life of electronic components
- Will not interfere with wireless networks
- Low maintenance and easy to operate
- Optional top and bottom side curing of materials up to 420 mm (16.5 in.)
- Optional closed-loop monitoring of lamp power to ensure consistent curing
- Software tracking of lamp life – through the Select Coat® SL-940 conformal coating system

Nordson ASYMTEK’s Select Cure UV-9 inline oven is ideal for top and bottom material curing in mid- to high-volume production environments. Using ultraviolet light as the primary curing method, the oven is optimized to cure parts up to 420 mm in size. The heart of the UV-9 cure system is in the arc lamp technology with adjustable UV intensity. It is combined with a unique ventilation design that dissipates heat generated from the UV lamp. This combination keeps the temperature and rate of rise at acceptable levels while maximizing production and lamp lifetime as the lamps run cooler.

An optional closed-loop feature ensures process reliability and compensates for the eventual lamp degradation by measuring and adjusting power levels for UVA. Therefore, the desired profile is maintained within +/- 5% of the programmed specifications. Other options and lamp types are available to further ensure that the oven meets customer specific needs while maintaining high performance. The design features one oversized lamp that spans the entire width of the oven which produces a uniform intensity profile across the part. Three lamp modules are available: 420 mm (120W/cm); 220 mm (140W/cm); and 220 mm High Power (200W/cm).

Additionally a standard SMEMA-compatible chain conveyor with 5-mm pins enables the processing of boards and is easily integrated with any dispensing or coating system. The conveyor can be configured for either left-to-right and right-to-left flow with electrical width adjustment.

<table>
<thead>
<tr>
<th>Arc Lamp 505 mm</th>
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</thead>
<tbody>
<tr>
<td><strong>Focal Length</strong></td>
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<tr>
<td><strong>Length</strong> (board width)</td>
</tr>
<tr>
<td><strong>Power</strong></td>
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<tr>
<td><strong>Lamp Options</strong></td>
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**Select Cure® UV-9 Cure Oven Specifications**

**General**
- **Dimensions:** 1400 x 1200 x 1526 mm (55.12 x 47.24 x 60.1 in.)
- **Noise level:** 68 dB @ 1 m

**Light Tower**
- **3 Light Configuration with buzzer**
  - Red: Alarm
  - Orange solid: Oven not ready (start-up, cooling down, downstream SMEMA no ready etc.)
  - Green flashing: Lamp in stand-by mode, but ready for production pending on up-stream SMEMA
  - Green solid: Run

**Conveyor**
- **Type:** Chain conveyor with 5-mm pins
- **Component clearance:** 100 mm top and bottom
- **Conveyor height:** 920 to 1000 mm (36.22 to 39.37 in.)
- **Conveyor speed:** 300 to 1500 mm/min (1-4.92 ft/min)
- **Conveyor width:** 50 to 420 mm (1.97 to 16.54 in.)
- **Conveyor length:** 1400 mm (55.12 in.)
- **Maximum load:** 4Kg/m (2.69 lbs/ft) evenly distributed

**Exhaust/Ventilation**
- **10.83 m³/min @ 40 mm WC, 250 mm exhaust duct (382.5 SCFM @ 1.57 in. WC, 10 in. exhaust duct)**

**Facilities Requirements**
- **Weight:** 250 kg (551 lbs) (approximate)
- **Power:** 400VAC 3 phases

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<thead>
<tr>
<th></th>
<th>Single sided</th>
<th>Double sided</th>
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<tbody>
<tr>
<td><strong>Voltage</strong></td>
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<td>400 V AC</td>
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<tr>
<td><strong>Phases</strong></td>
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<td>3</td>
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<tr>
<td><strong>Mode</strong></td>
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<td>N+EARTH, TT</td>
</tr>
<tr>
<td></td>
<td>or TN</td>
<td>or TN</td>
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<tr>
<td><strong>Power rating</strong></td>
<td>7.5 KW</td>
<td>14 KW</td>
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*Note: other power configurations available.*
- **Air supply (for shutters):** 5 bars (73 psi) max.

**Other Standard Features**
- Integrated operator interface on coating or dispensing system
- Software-controlled conveyor width adjustment
- Light beacon
- Exhaust control
- Door and safety interlocks
- E-stop
- SMEMA compatible conveyor

**Options**
- Close-loop UVA lamp regulation
- Traffic control
- Board counter
- Board jam detection (entry and exit)
- Automatic width adjust for conveyors
- Right to left conveyor direction
- Heavy-duty conveyor:
  - 8Kg/m (5.38 lbs/ft) evenly distributed
  - Reduces maximum conveyor width to 400 mm (1.3 ft)
- Traceability software
- Entrance conveyor covered extension
- Exit conveyor covered extension
- Recipes and data log storage
- Touch screen for oven monitoring and control
- Special paint
- Dual-lane conveyor
- Iron-doped lamp
- Gallium-doped lamp
- Power packs for different power configurations
- Inlet and outlet shutters (air supply required)
- 220 mm lamp (140W/cm)
- 220 mm lamp (200W/cm)

Additional options are available: contact Nordson ASYMTEK for further information.
# Select Cure® UV-9 Cure Oven

<table>
<thead>
<tr>
<th>Control</th>
<th>Top Lamp</th>
<th>Bot Lamp</th>
<th>My oven</th>
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<tbody>
<tr>
<td>Recipes</td>
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<td>RPP</td>
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<tr>
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<td>Top lamp</td>
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<tr>
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<td>Track B</td>
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</table>

Software interface for Select Cure UV-9 Cure Oven

Select Cure UV-9 Cure Oven in line with a Nordson ASYMTEK SL-940 coating system

For more information, visit our website to locate your local representative or contact your regional office:

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