UV-6 Select Cure® Module

Features and Benefits

- Modular configuration for curing topside of PCBs
- Runs cooler-safer and better for electronic components
- Minimal maintenance- simple construction and operation
- Safety interlocks, E-stop button and 6-button operator panel allow safe, efficient operation. CE approved
- UV lamp size and focal height are configurable to meet specific application requirements

Nordson ASYMTEK’s Select Cure® inline UV oven with modular design is ideal for topside curing in mid-to-high volume production. Using ultraviolet light as the primary cure method, the oven module has five configurations with either 152-mm (6-inch) or 254-mm (10-inch) lamps. Cure area is dependant on lamp width; see the table on the back for the available configurations.

The heart of the UV-cure system is the lamp technology. The integrated Nordson CoolWave™ microwave lamps run up to 30-percent cooler than other traditional microwave lamps and provide safer UV curing over standard arc lamps. The CoolWave lamps are uniquely configured to ensure a geometrically accurate field of focus. Internal reflectors eliminate heat generation common with tradition metal reflectors. Boards are cured cooler, and the lamps run cooler for maximized production.

A unique ventilation design dissipates heat generated from the UV lamp. A blower forces cooling air across the surface of the board to keep the temperature and rate of rise at acceptable levels.

A SMEMA-compatible chain conveyor allows processing of boards and is easily integrated with your existing Century conformal coating system. The conveyor is configured for both left-to-right and right-to-left flow with manual width adjustment.

<table>
<thead>
<tr>
<th>Lamp Type</th>
<th>CoolWave 152 mm (6 in.) Lamp</th>
<th>CoolWave 254 mm (10 in.) Lamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reflector</td>
<td>Dichroic Coating 210-480 nm Focus/Flood Profiles</td>
<td>Dichroic Coating 210-480 nm Focus/Flood Profiles</td>
</tr>
<tr>
<td>Focal Length</td>
<td>53.3 mm (2.1 in.) standard</td>
<td>53.3 mm (2.1 in.) standard</td>
</tr>
<tr>
<td>Length (relates to board width)</td>
<td>152 mm, 306 mm, or 457 mm (6, 12 or 18 in.)</td>
<td>254 mm or 508 mm (10 or 20 in.)</td>
</tr>
<tr>
<td>Power</td>
<td>12 W/mm (300 W/inch)</td>
<td>23 W/mm (600 W/inch)</td>
</tr>
<tr>
<td>Type</td>
<td>Mercury (broadband output along all wavelengths) and Mercury-Iron available *rich in UVA</td>
<td>Mercury (broadband output along all wavelengths) and Mercury-Iron available *rich in UVA</td>
</tr>
</tbody>
</table>
Specifications: Select Cure UV-6 Cure Module

General:
Dimensions: 1219x927x1105mm (48x 36.5x 43.5 in.) 1384 mm (54.5 on.) to top beacon
Lamp Configuration: UP to three 152 mm (6 in.) or two 254 mm (10 in.) lamp heads.

<table>
<thead>
<tr>
<th>Lamp Model</th>
<th>No. of Lamps</th>
<th>Cure Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>152 x 1 (6.0 x 1)</td>
<td>1</td>
<td>152 mm (6.0 in.)</td>
</tr>
<tr>
<td>152 x 2 (6.0 x 2)</td>
<td>2</td>
<td>305 mm (12.0 in.)</td>
</tr>
<tr>
<td>152 x 3 (6.0 x 3)</td>
<td>3</td>
<td>457 mm (18.0 in.)</td>
</tr>
<tr>
<td>254 x 1 (10.0 x 1)</td>
<td>1</td>
<td>254 mm (10.0 in.)</td>
</tr>
<tr>
<td>254 x 2 (10.0 x 2)</td>
<td>2</td>
<td>508 mm (20.0 in.)</td>
</tr>
</tbody>
</table>

Light Tower, 2-Lamp Configuration:
- Yellow solid: Standby mode
- Yellow flashing: Lamp on (waiting for blower and 70% lamp power)
- Green solid: Run

Weight:
- 136kg (300 lbs). (approximate) UV-6 conveyor module
- 136 kg (300 lbs) per unit (254mm/10in. lamp head and power supply)
- 50kg (110 lbs) per unit (152 mm/6in. lamp head and power supply)

Conveyor:
Type: Chain conveyor
Conveyor Height: 927 to 978 mm (36.5 to 38.5 in.)
Conveyor Speed: 305 to 3048 mm/min (1-10ft/min) (Ninja Wheel)
Conveyor Width: 57mm to 457mm (2.25 to 18 in.)
Conveyor length: 1219 mm (48 in.)

Facilities Requirements:
Power: Number of connections required:

<table>
<thead>
<tr>
<th>Controls &amp; Conveyor</th>
<th>152 mm (6.0 inch) Lamphead Power Supply</th>
<th>254 mm (10.0 inch) Lamphead Power Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 VAC, 10 A, 60 Hz, 1 PH</td>
<td>240 VAC, 14 A, 60 Hz, 1 PH</td>
<td>480 VAC, 20 A, 60Hz, 3 PH</td>
</tr>
<tr>
<td>152mm (6.0 in.)</td>
<td>1</td>
<td>1 per lamp</td>
</tr>
<tr>
<td>254 mm * (10.0 in.)</td>
<td>2</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Cooling blower is included standard in 254 mm (10.0 in) lamp systems; operating voltage can be configured to match lamp voltage (480 VAC). Factory-supplied ductwork may be required if blower needs to be located away from the UV oven.

50 Hz configurations available upon request

Exhaust/Ventilation:
28.33 m³/min @ 51 mm WC, 254 mm exhaust duct
(1000 SCFM @ 2.0 in. WC, 10 in. exhaust duct)

Other Standard Features:
- Light Beacon
- Door and safety interlocks
- E-stop
- Standalone operation
- SMEMA compatible

Options:
- Hand Crank Width Adjust
- Sheet Metal Panels
For more information, speak with your local representative or contact your regional office.

Nordsonasymtek.com

North America
Headquarters
Carlsbad, CA, USA
+1.760.431.1919
info@nordsonasymtek.com

China
Shanghai
+8621.3866.9166
info@asymtek.cn

Beijing
+8610. 8453.6388
info@asymtek.cn

Guangzhou
+8620.8654.0092
info@asymtek.cn

Europe
Maastricht, Netherlands
+31. 43.352.4466
cs.europe@asymtek.com

Japan
Tokyo
+81.3.5762.2801
info.jp@nordsonasymtek.com

Korea
Seoul
+82.31.765.8337
info@nordsonasymtek.com

India
Chennai
+91. 44.4353.9024
info@nordsonasymtek.com

S.E. Asia/Australia
Singapore
+65.6796.9514
info@nordsonasymtek.com

Taiwan
+886.229.02.1860
info@nordsonasymtek.com