

CoolWave² 610 System



Introducing **NEW** Microwave Powered UV Curing Technology

Now there's a microwave-powered ultraviolet (UV) curing system that exceeds your most demanding production requirements. As one of the most advanced and reliable microwave-powered UV system available on the market today, the **Nordson CoolWave² 610 System** has greater application flexibility and is more durable than anything else available. Design flexibility, reliability, cooler operation, better system diagnostics, lower cost of ownership, need we say more...

When you expect more, the CoolWave² UV curing system is your only choice.



MPS2-610V CONTROLLER

The CoolWave² Controller is a fully variable power supply. UV power output is adjustable from 20% to 100% of full UV output power in 1% steps. CoolWave² controllers are reliable, feature-packed systems. A single interconnect cable interfaces the lamphead directly to the controller, reducing installation time and spare parts inventory. This patented, highly flexible cable also features a unique indicator to ensure that installation has been performed correctly.

Every power supply features:

- Remote I/O as a standard feature
- Electrical noise filtration
- Simple operator interface
- CE approvals
- Clean efficient design for reduced costly downtime
- Digital display for ease of troubleshooting

Cooling Pressure Readout –

A patented cooling pressure digital readout is incorporated into the system, allowing easy monitoring of the actual lamphead internal cooling air pressure.

Remote Customer Interface –

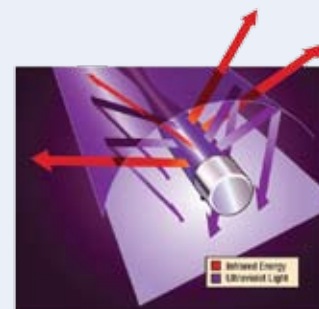
Two methods on connection. The first is a simple, hard-wired connection through the provided I/O terminal strip. For more advanced users, an optional PLC interface (DeviceNet) is also available.



CW2-610 LAMPHEAD

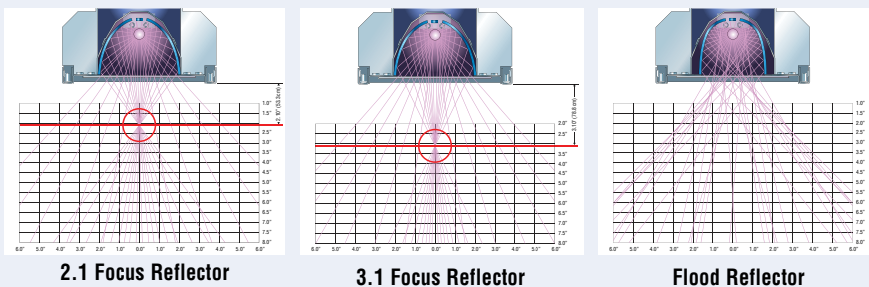
No Internal Gasketing - The design has eliminated the maintenance intensive internal gasketing in the microwave cavity. This reduces your operational and maintenance costs, as well as expensive downtime related to internal arcing.

Cooler Operation - The dichroic-coated reflector does not reflect all of the heat-generating infrared light waves back to the substrate. The result is precisely focused UV light where you need it without the damaging infrared energy that is inherent to non-dichroic coated metal reflectors.



Durable glass reflectors - Rather than use conventional polished metal reflectors, the CoolWave² uses a proprietary reflector, that is constructed of temperature-stable glass with an engineered dichroic coating as a standard feature. The use of glass reflectors allowed Nordson the design flexibility to offer multiple reflector sets for the CoolWave².

Every reflector comes with the industry's first five-year warranty against workmanship and reflectivity.



Internal Blower Option - With the optional internal blower there is no need for any external/remote cooling blowers. This self-contained lamphead simplifies installation and control. As the user increases or decreases the UV power setting on the power supply, the blower will automatically adjust lamphead blower speed to insure that proper lamp cooling is maintained. This is critical to maintain the proper spectral quality of the UV lamp.

TECHNICAL SPECIFICATIONS

For reference only, please consult the product manual for more detailed information.



POWER SUPPLY MPS2-610V

Length: 31.25 in. (793.75 mm)
Width: 17.75 in. (450.85 mm)
Height: 10.09 in. (256.30 mm)
Weight: 260 lbs (117.9 kg)
Cooling: Self-Contained Internal Fans
Control Functions: On/Off, Stand-by, Off reset, Local remote
Interlocks: Unit: HV cable; System: RF detector, External interlock, Network error
Power Connections: 400 VAC or 480 VAC, 3 phase, 50/60 Hz



LAMPHEAD CW2-610T

Power: Maximum 600 wpi (240 w/cm), 6000 watts total
Cure Width: 10 in. (254 mm)
Length: 7.94 in. (201.68 mm)
Width: 10.4 in. (264.16 mm)
Height: 15.56 in. (395.22 mm)
Weight: 42 lbs (19 kg)
Reflector Geometry: Focused or Flood
Mounting Position: Can be operated in any position
Cooling Requirement: 350 CFM of filtered air @ 7" water gauge, measured at the lamphead (9.91 m³/min of filtered air @ 1.74 kPa)



LAMPHEAD CW2-610I

Output Power: 600 wpi (240 w/cm), 6000 watts total
Cure Width: 10 in. (254 mm)
Length: 12.26 in. (312 mm)
Width: 10.55 in. (268 mm)
Height: 25.75 in (654 mm)
Weight: 61 lbs (28 kg)
Reflector Geometry: Focused or Flood
Mounting Position: Can be operated in any position
Cooling Requirement: Internally mounted blower provides needed cooling air

Nordson reserves the right to make design changes to products to improve their function. These changes may occur between printings.



For more information, talk with your Nordson representative or contact your Nordson regional headquarters office.

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