

# CoolWave<sup>®</sup> 2 - 610 System

## 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 CoolWave<sup>®</sup> 2 610 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 CoolWave 2 UV curing system is your only choice.



### MPS2-610V Controller

The CoolWave Controller is a fully variable power supply. UV power output is adjustable from 20% to 100% of full UV output power in 1% steps. CoolWave 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 –

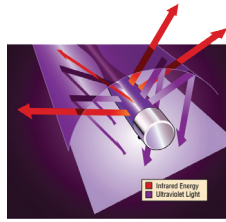
Two methods on connection. The first is a simple, hard-wired connection through the provided I/O terminal strip. For more advanced users, an optional PLC interface (DeviceNet) is also available.



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## CW2-610 Lamp head

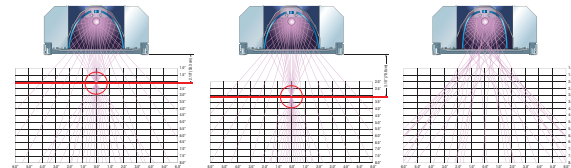
**No Internal Gasketing** - The design has eliminated the maintenance intensive internal gasketing in the microwave cavity. This reduces your operational and maintenance costs, as well as expensive downtime related to internal arcing.



**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 CoolWave<sup>2</sup> 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 CoolWave<sup>2</sup>. 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.



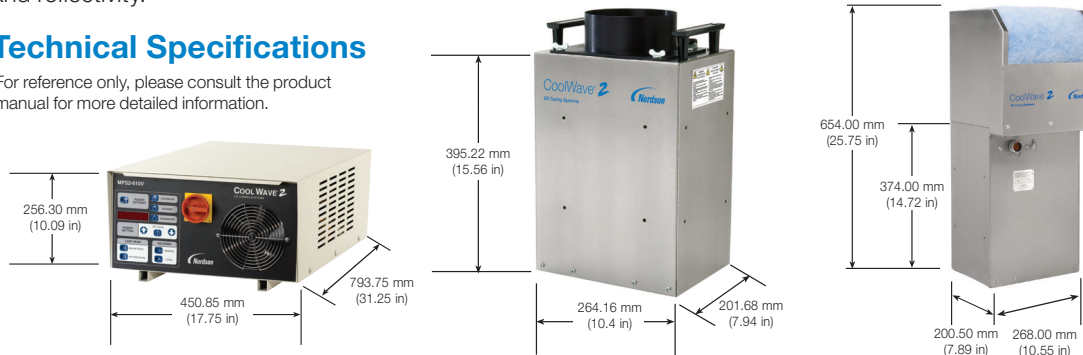
2.1 Focus Reflector

3.1 Focus Reflector

Flood Reflector

## Technical Specifications

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



Power Supply MPS2-610V	
<b>Weight</b>	260 lbs (117.9 kg)
<b>Cooling</b>	Self-Contained Internal Fans
<b>Control Functions</b>	On/Off, Stand-by, Off reset, Local remote
<b>Interlocks</b>	<b>Unit:</b> HV cable; <b>System:</b> RF detector, External interlock, Network error
<b>Power Connections</b>	400 VAC or 480 VAC, 3 phase, 50/60 Hz

Lamp head CW2-610T	
<b>Power</b>	Maximum 600 wpi (240 w/cm), 6000 watts total
<b>Cure Width</b>	10 in. (254 mm)
<b>Weight</b>	42 lbs (19 kg)
<b>Reflector Geometry</b>	Focused or Flood
<b>Mounting Position</b>	Can be operated in any position
<b>Cooling Requirement</b>	350 CFM of filtered air @ 7" water gauge, measured at the lamphead (9.91 m <sup>3</sup> /min of filtered air @ 1.74 kPa)

Lamp head CW2-610I	
<b>Power</b>	600 wpi (240 w/cm), 6000 watts total
<b>Cure Width</b>	10 in. (254 mm)
<b>Weight</b>	61 lbs (28 kg)
<b>Reflector Geometry</b>	Focused or Flood
<b>Mounting Position</b>	Can be operated in any position
<b>Cooling Requirement</b>	Internally mounted blower provides needed cooling air

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