

CoolWave[®] 2 - 410 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[®] 2 410 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.



MPS2-410V 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:

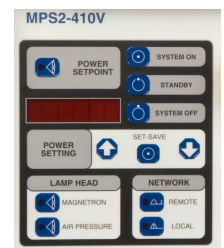
- Remote I/O as a standard feature
- Electrical noise filtration
- Simple operator interface
- CE approvals
- Clean efficient design for reduced costly downtime
- Digital display for ease of troubleshooting

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 –

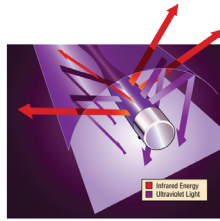
Two methods on connection. The first is a simple, hard-wired connection through the provided I/O terminal strip. For more advanced users, an optional PLC interface (DeviceNet) is also available.



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CW2-410 Lamp head

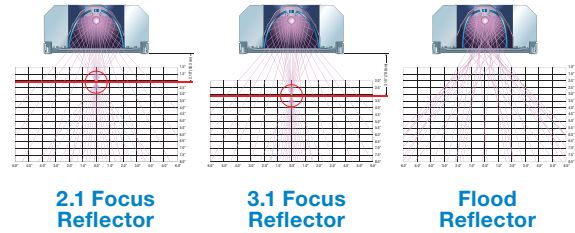
No Internal Gasketing - The design has eliminated the maintenance intensive internal gasketing in the microwave cavity. This reduces your operational and maintenance costs, as well as expensive downtime related to internal arcing.



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.

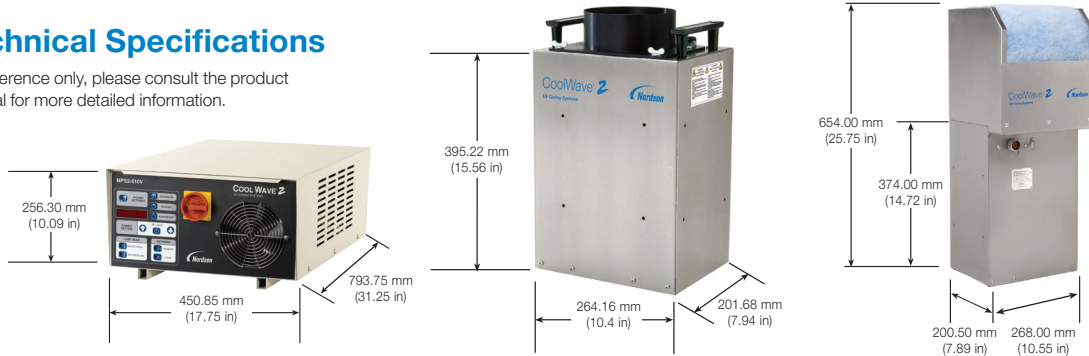
Durable glass reflectors - Rather than use conventional polished metal reflectors, the CoolWave² uses a proprietary reflector, that is constructed of temperature-stable glass with an engineered dichroic coating as a standard feature. The use of glass reflectors allowed Nordson the design flexibility 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 MPS2-410V	
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

Lamp head CW2-410T	
Power	Maximum 475 wpi (190 w/cm), 4750 watts total
Cure Width	10 in. (254 mm)
Weight	42 lbs (19 kg)
Reflector Geometry	Focused or Flood
Mounting Position	Can be operated in any position
Cooling Requirement	315 CFM of filtered air @ 5.5" water gauge, measured at the lamphead (9.9 mm ³ @ 1780 Pascal

Lamp head CW2-410I	
Power	475 wpi (190 w/cm), 4750 watts total
Cure Width	10 in. (254 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

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UVL-17-3786
Revised 10/17

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