

CoolWave® - 306 System

Flexible, durable, microwave-powered UV lamp head design



Power Supply Features

Nordson's MPS-306 power supply is a reliable, feature-packed system that meets your most demanding production requirements. Every power supply features:

- Remote I/O as a standard feature
- Easy operator interface
- Electrical noise filtration
- Clean efficient design for reduced costly downtime
- CE approvals
- Enhanced diagnostics
- Standard network capability



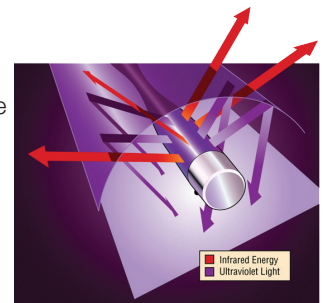
Now there's a microwave-powered ultraviolet (UV) curing system that will meet your most demanding production requirements. As one of the most advanced and reliable lamps available on the market today, the Nordson CoolWave® 306 System has greater application flexibility and is more durable than anything else available in the marketplace. It reduces damaging infrared energy, provides a more geometrically accurate field of focus, and requires less maintenance than all other systems. CoolWave 306 systems are available in 6-inch widths and are rated at 300 watts per inch (120 w/cm).

CoolWave systems can be configured to meet any production requirement. The modular design allows multiple lamps to be placed side by side for wider curing applications. Power supplies can be stacked or placed in an optional power supply rack enclosure or stand. All CoolWave 306 systems provide almost instantaneous start-up for excellent productivity. The CoolWave 306 lamp head is available with either an internal blower or external ducting port. For maximum design flexibility, external blower models can be ordered with either top or side air inlets.

CW-306 Lamphead

No Internal Gasketing –

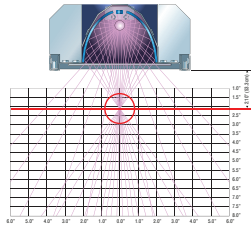
Nordson's CoolWave design has eliminated the maintenance intensive internal gasketing found in the microwave cavity. This design reduces your operational and maintenance costs, as well as expensive downtime and damage related to internal arcing.



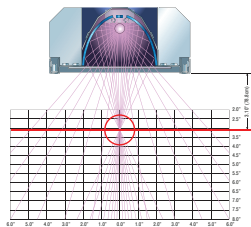
Cooler Operation – The dichroic-coated reflector does not reflect all of the heat-generating infrared light waves back to the substrate. The result is precisely focused UV light where you need it without the damaging infrared energy that is inherent to non-dichroic coated metal reflectors.

CoolWave® 306 System

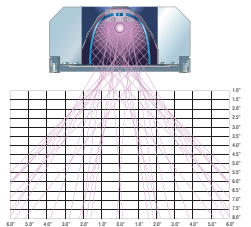
Patented glass reflectors – Rather than use conventional polished metal reflectors, the CoolWave® uses a patented reflector, constructed of temperature-stable glass with an engineered dichroic coating. The use of glass reflectors allows Nordson and our customers the design flexibility of multiple reflector sets for the CoolWave. **Every reflector comes with the industry's first and only five-year warranty against defects in workmanship or reflectivity.**



2.1 Focus Reflector



3.1 Focus Reflector

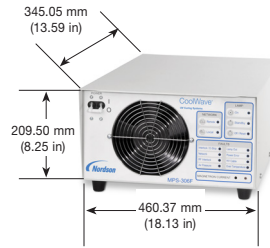


Flood Reflector

Internal Blower Option – The optional internal blower eliminates the need for any external/remote cooling blowers. This self-contained lamphead simplifies installation and control.

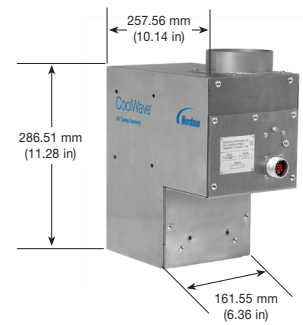
Technical Specifications

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



Power Supply MPS-306F

Dimensions:	
Length	13.59 in. (345.05 mm)
Width	18.13 in. (460.37 mm)
Height	8.25 in. (209.5 mm)
Weight	138 lbs (62 kg)
Power Connection	200/210/240 Vac, 1 phase, 50/60 hz
Connections	12-foot cables are standard (25, 50, 75, 100 ft. optional)



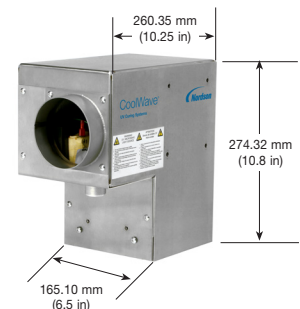
Lamp head CW-306 T (External blower, Top inlet)

Power	Maximum 300 wpi (120 w/cm), 1800 watts total
Cure Width	6 in. (152 mm)
Dimensions:	
Length	10.14 in. (257.56 mm)
Width	6.36 in. (161.55 mm)
Height	11.28 in. (286.51 mm)
Weight	19 lbs (8.62 kg)
Reflector Geometry	Focused or Flood
Mounting Position	Can be operated in any position
Cooling Requirement	225 CFM of filtered air @ 2.5" water gauge (6.36 m ³ /min of filtered air @ .62 kPa)



Lamp head CW-306 I (Internal blower)

Power	Maximum 300 wpi (120 w/cm), 1800 watts total
Cure Width	6 in. (152 mm)
Dimensions:	
Length	10.25 in. (260.35 mm)
Width	6.36 in. (161.55 mm)
Height	19.92 in. (505.97 mm)
Weight	32 lbs (14.5 kg)
Reflector Geometry	Focused or Flood
Mounting Position	Can be operated in any position
Cooling Requirement	225 CFM of filtered air @ 2.5" water gauge (6.36 m ³ /min of filtered air @ .62 kPa)



Lamp head CW-306 S (External blower, Side inlet)

Power	Maximum 300 wpi (120 w/cm), 1800 watts total
Cure Width	6 in. (152 mm)
Dimensions:	
Length	10.25 in. (260.35 mm)
Width	6.5 in. (165.10 mm)
Height	10.8 in. (274.32 mm)
Weight	19 lbs (8.62 kg)
Reflector Geometry	Focused or Flood
Mounting Position	Can be operated in any position
Cooling Requirement	225 CFM of filtered air @ 2.5" water gauge (6.36 m ³ /min of filtered air @ .62 kPa)

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