

Nexus II

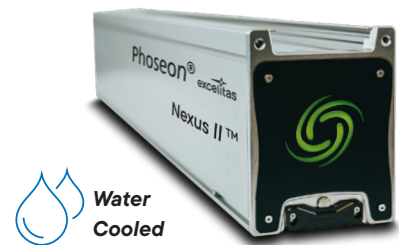
Water-cooled Product Specifications

UV LED SLM™ Technology

Excelitas® is the world leader in UV LED solutions for commercial and industrial applications with products that deliver superior performance and real-world reliability for UV curing of adhesives, coatings and inks. Our patented Semiconductor Light Matrix (SLM)™ technology was developed with meticulous design engineering of LEDs, arrays, optics, and cooling architecture to deliver optimum UV LED curing performance.

The Phoseon Nexus II™ water-cooled UV light source, which features a unique UV LED SLM™ design, delivers an ultra-high UV dose that is ideal for demanding curing applications. Patented SLM control technology allows uniformity to be optimized during operation, in real time, without the need to take the UV LED source offline.

In addition, all Nexus II systems provide both real-time and historical data through Nexus DataHub, giving users greater visibility and control over their curing processes.



Light Source Setup (Chill Drum, optional shielding shown)

Cooling Liquid directly impacts product performance
Temperature: 20 to 35 °C
Water: Distilled required, with corrosion inhibitors. Refer to **28384 Water Cooling Requirements**
Water Fittings: ½" OD Barb fitting. Can be removed and replaced with any ½" NPT fitting.

Operating Environment:
Indoor use only
Temperature: 10 to 40 °C
Humidity: <80% non-condensing for temperatures up to 30 °C
Altitude: up to 3,000m
Storage Temperature: -20 to 85 °C

Replaceable Glass

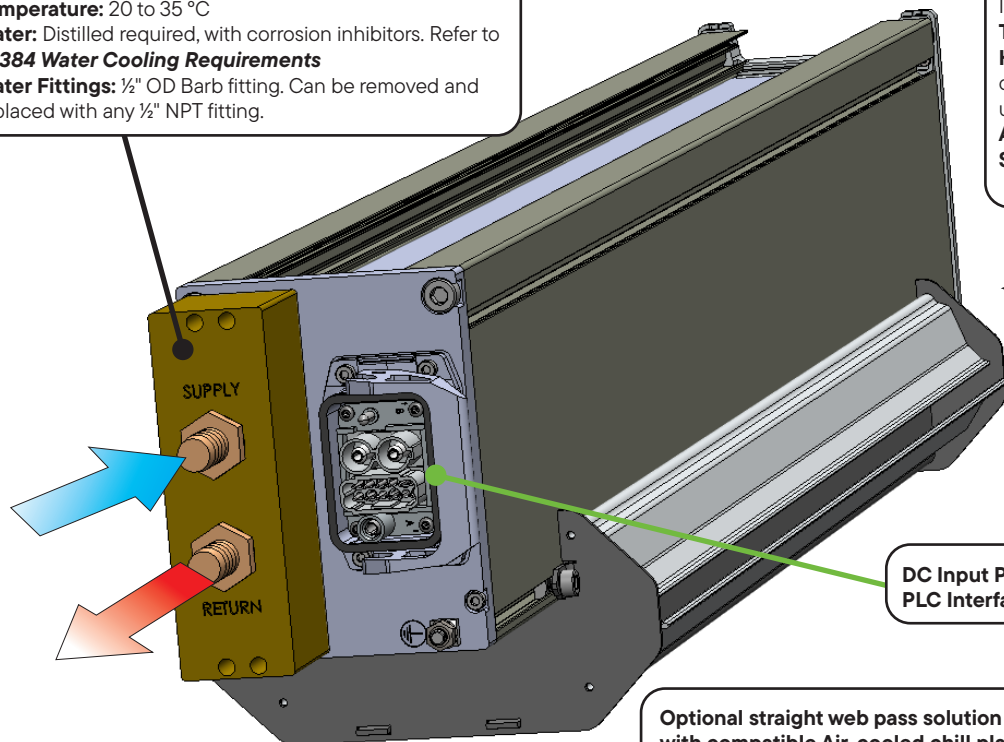
DC Input Power: 120±5 Vdc
PLC Interface: Modbus over TCP/IP

Optional shielding around the chill drum.

Light Source Setup (Flat Web, optional shielding shown)

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Water: Distilled required, with corrosion inhibitors. Refer to **28384 Water Cooling Requirements**
Water Fittings: ½" OD Barb fitting. Can be removed and replaced with any ½" NPT fitting.

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Storage Temperature: -20 to 85 °C



Performance

Wavelength	395nm					
SLM™ Light Output Energy per Segment	90W					
Max. Web Width (mm)	300	375	450	525	600	675
120±5V Power In (Max)	2900W/ 24A	3575W/ 30A	4300W/ 36A	5000W/ 42A	5700/ 48A	6400W/ 54A
Chiller/Cooler Capacity	2200W	2700W	3250W	3800W	4320W	4850W
Chiller/Cooler Flow Rate	6 LPM	6 LPM	8 LPM	8 LPM	10 LPM	10 LPM
Pressure Drop (Typical)	0.8 Bar/ 26 psi	1.0 Bar/ 26 psi	1.2 Bar/ 26 psi	1.4 Bar/ 26 psi	1.6 Bar/ 26 psi	1.8 Bar/ 26 psi

Note: One ton of chilling capacity = 3516W

Phoseon Swirl Color Indicates Lamp State



UV OFF,
Station
Disabled



UV OFF,
Station
Enabled



UV ON



Warning



Fault

Dimensions

Units of measurement (rounded)*: mm

Nexus II						
Emitting Window	300	375	450	525	600	675
Length (L)	620	695	770	845	920	992
Width (W)	112	112	112	112	112	112
Height (H)	147	147	147	147	147	147
Weight (kg)	9	11	12.5	14	15	16

