VeriCure™ UV LED Curing System

Product Specifications

IGB tech GMBH
the rad pack

Phoseon™

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.

Water Cooled

The Phoseon VeriCure™ water-cooled UV light source, which features a unique UV LED SLM™ design, delivers an ultra-high UV dose that is ideal for demanding applications such as wood coatings. Patented SLM control technology allows uniformity to be optimized during operation, in real time, without the need to take the UV LED source offline. Additionally, this unique technology allows for the UV emitting area to be adjusted if process width requirements change, and for discrete LED module intensity levels to be set to optimize curing of irregular substrate contours.

Light Source Overview

Coolant Supply/Return
(directly impacts product performance)
Temperature: 20 to 35 °C (dependent on environmental conditions)
Water: Distilled required, with corrosion inhibitors. Refer to *28384 Water Cooling Requirements*

Clean Dry Air Inlet*

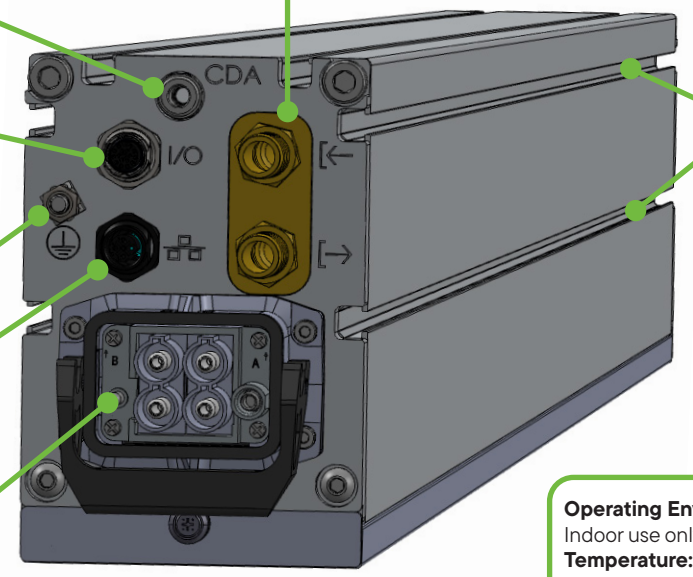
PLC Interface
Supported Protocols: OmniCure AC Series communication protocol, Analog

Earth Ground

Ethernet Connection
Supported Protocols: Modbus TCP/IP, Phoseon CLIP protocol

DC Input Power: 120±5 Vdc
System Energy Efficiency: 13 kW/110A

Removable Secondary Glass**



T-Slots

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

*not required, optional use only
**extra cost option

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Optical Performance*

Wavelength (nm)	365	395/405
Typical Dose (@50 mm Working Distance & 50 m/min)	300 mJ/cm²	500 mJ/cm²
Peak Irradiance (@window)	15 W/cm²	20 W/cm²
Peak Irradiance (@30mm)	4 W/cm²	6 W/cm²

*Without secondary glass. 385 nm wavelength available on request.

Interface Mechanical Specifications

Coolant	⅜" NPT to ½" ID Hose Barb fitting (Can be removed and replaced with any ½" NPT fitting)
Clean Dry Air	⅛" NPT to ¼" tube fitting
PLC Connection	Phoenix Contact 17-Pin M12 Socket Cable: Phoenix Contact 1430213 or equivalent
Earth Ground	M6 fitting
T-Slots	Accepts M6 square hardware
Ethernet Connection	Phoenix Contact 4-Pin M12 Socket Cable: Phoenix Contact 1403499 or equivalent
Power Connection	Phoenix Contact HEAVYCON B6
Electrical Supply	Meanwell RST-15K-115 or equivalent

Chiller Requirements

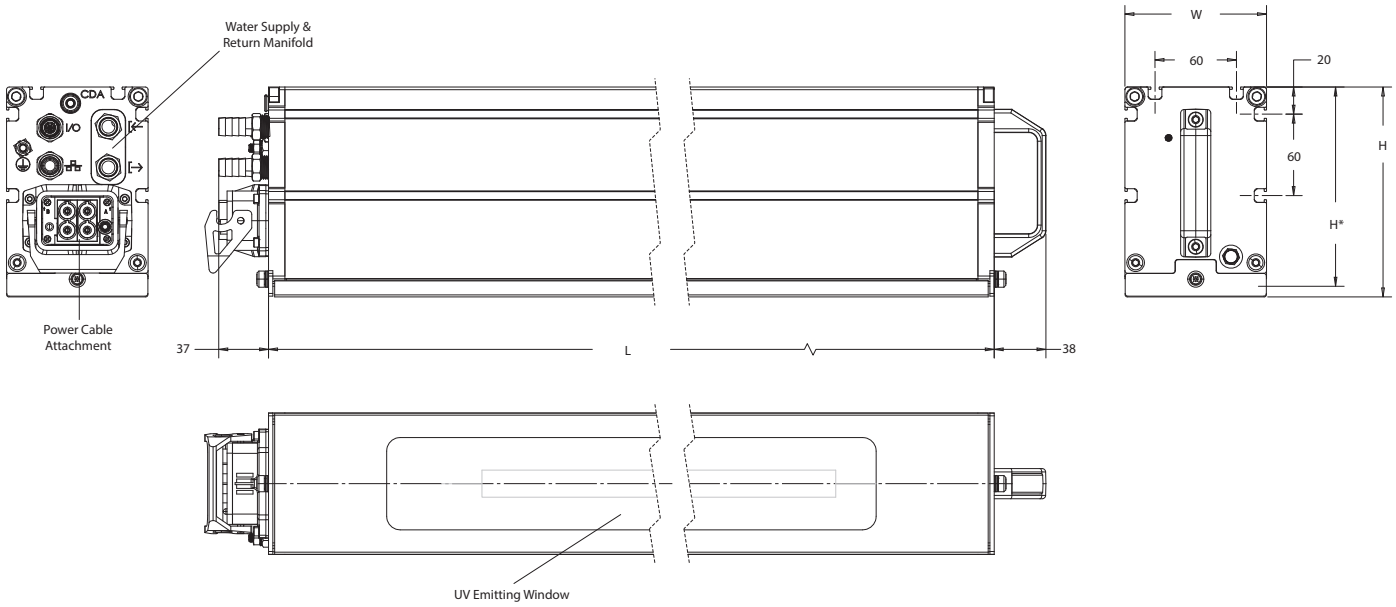
Chiller/Cooler Capacity	10 kW
Chiller/Cooler Flow Rate	10 LPM
Coolant Temperature	30 °C (dependent on environmental conditions)
Pressure Drop (Typical)	7.7 psi/0.531 Bar @10 LPM

Dimensions

Units of measurement (rounded): mm

Model: VeriCure	
Emitting Window*	1350 x 20
Length (L)	1624
Width (W)	104
Height (H) **Secondary Window Installed**	155
Height (H*) **No Secondary Window Installed**	147
Weight (kg)	29

***Other lengths available.**



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