

VeriCure™ UV LED Curing System

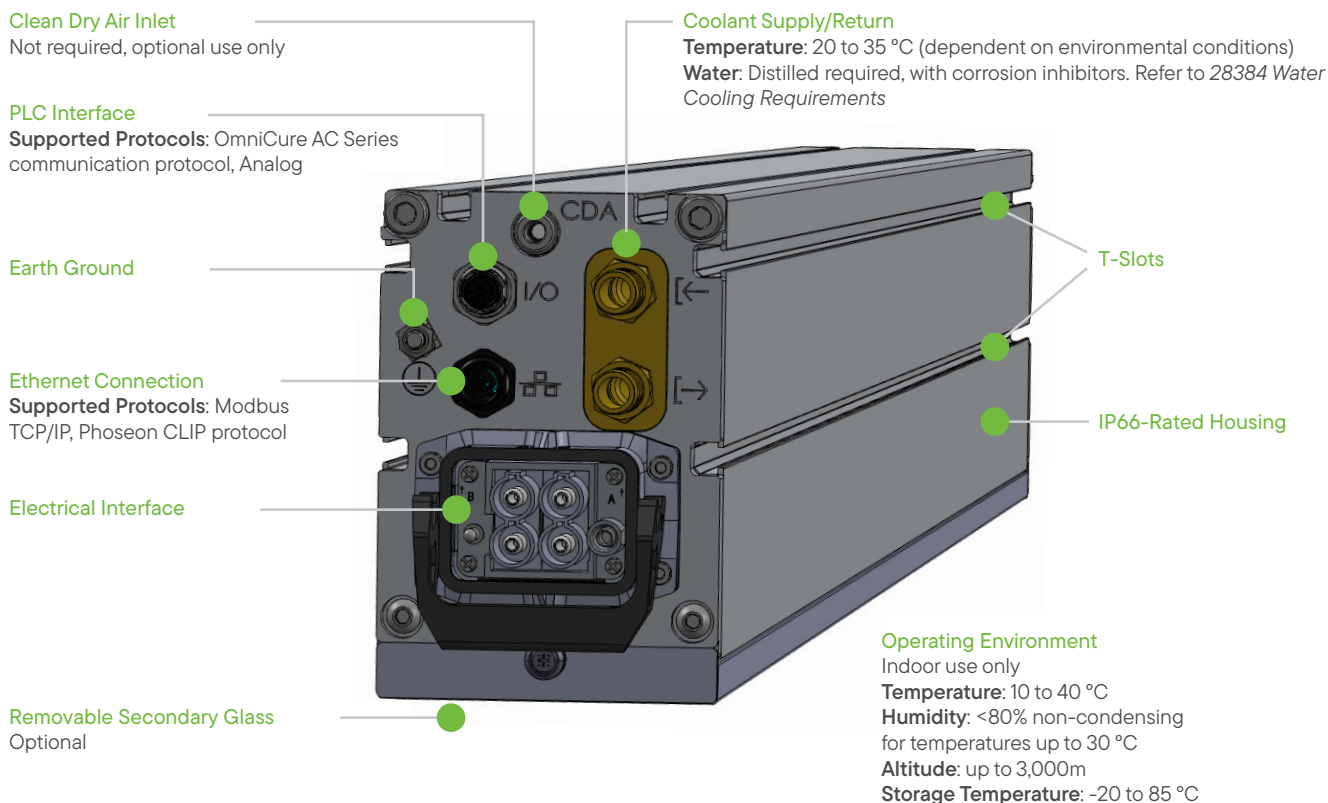
Product Specifications



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 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 industrial 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. 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



OPTICAL PERFORMANCE¹

Wavelength (nm)	365	395/405
Typical Dose (@50 mm Working Distance & 50 m/min)	300 mJ/cm ²	500 mJ/cm ²
Peak Irradiance (@window)	15 W/cm ²	20 W/cm ²
Peak Irradiance (@30mm)	4 W/cm ²	6 W/cm ²
Pressure Drop (Typical)	4.0psi/0.257 Bar @ 8LPM	4.7psi/0.324 Bar @ 8LPM

¹ Without secondary glass. 385 nm wavelength available on request.

INTERFACE MECHANICAL SPECIFICATIONS

Coolant	3/8" NPT to 1/2" ID Hose Barb fitting (Can be removed and replaced with any 1/2" NPT fitting)
Clean Dry Air	1/8" NPT to 1/4" 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

CHILLER & INPUT POWER REQUIREMENTS

Model	750	900	1050	1200	1350
Amperage/Power (+/-10%)	60A/7.2kW	72A/8.6kW	84A/10.1kW	96A/11.5kW	109A/13.1kW
Input Voltage (+/- 5 VDC)	120 VDC	120 VDC	120 VDC	120 VDC	120 VDC
Chiller/Cooler Capacity	6.5kW	7.0kW	8kW	9kW	10 kW
Chiller/Cooler Flow Rate	8 LPM	8 LPM	8 LPM	10 LPM	10 LPM
Coolant Temperature ¹	30 °C	30 °C	30 °C	30 °C	30 °C
Pressure Drop (Typical)	4.0psi/0.257 Bar @ 8LPM	4.7psi/0.324 Bar @ 8LPM	5.0psi/0.345 Bar @ 8LPM	8.4psi/0.579Bar @ 10LPM	9.1psi/0.627Bar @ 10LPM

¹ Coolant temperature is dependent on environmental conditions. Refer to 28384 Water Cooling Requirements.



DIMENSIONS¹

Model: VeriCure

Model	750	900	1050	1200	1350
Emitting Window	750 x 20	900 x 20	1050 x 20	1200 x 20	1350 x 20
Length (L)	1024	1174	1324	1474	1624
Width (W)	104	104	104	104	104
Height (H) Secondary Window Installed	155	155	155	155	155
Height (H*) No Secondary Window Installed	147	147	147	147	147
Weight (kg) ¹	18.1	21.7	23.3	26.1	29.5

¹ Units of measurement (rounded): mm

