OmniCure®
UV Curing • In Control

OmniCure AC8225-F+ and AC9225-F

Air-Cooled UV LED Solutions for Fiber Curing Applications

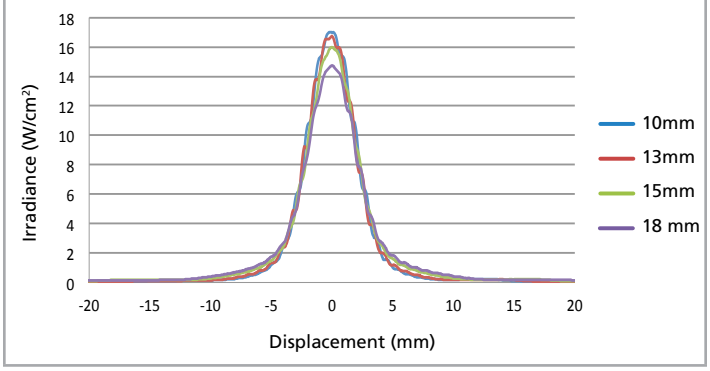
- Custom optical design to enhance the output and optimize delivery of UV onto the fiber
- Exceptional cost savings from reduced electricity consumption to lower maintenance
- Patented LED control technology for superior uniformity
- Compact air-cooled UV LED design for ease of integration

EXCELITAS TECHNOLOGIES®

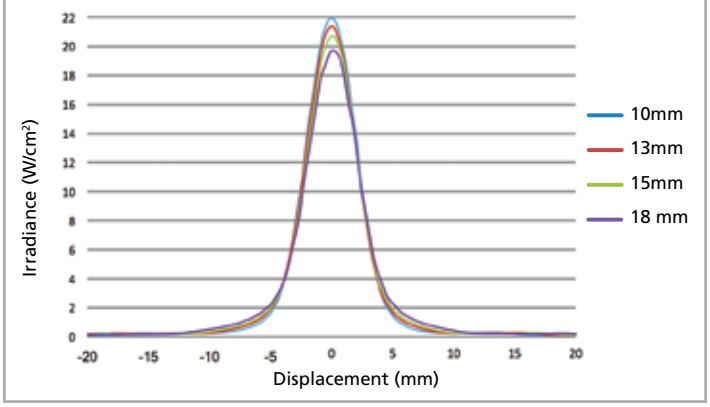
Outstanding Optical Performance

The OmniCure® AC8225-F+ and AC9225-F UV LED curing systems are specifically designed for fiber curing applications. Featuring a custom optical design to enhance output and optimize delivery of UV onto the fiber, the OmniCure AC8225-F+ and AC9225-F provide an air-cooled, high output solution to meet the market demand for increased process speeds. The AC8225-F+ delivers up to 16W/cm² peak irradiance at a 10 to 18mm working distance while the AC9225-F offers up to 20W/cm² peak irradiance. Featuring a replaceable outer window and the same mechanical enclosure, the OmniCure AC8225-F+ and AC9225-F fiber curing solutions enable customers to easily scale production speeds without complex changes in integration. Both UV curing systems utilize a patented LED control technology for exceptional uniformity and the ability to adjoin multiple systems while maintaining optical uniformity between each system.

Irradiance vs Working Distance for AC8225-F+ – 395nm



Irradiance vs Working Distance for AC9225-F – 395nm



Exceptional Cost Savings

OmniCure AC8225-F+/AC9225-F UV LED fiber curing systems reduce electrical power consumption by up to 60% compared with traditional arc lamp systems for exceptional cost savings and no compromises in line speed. With over 40,000 hours of LED lifetime and no replacement parts, maintenance costs are even further reduced.

Ease of Integration

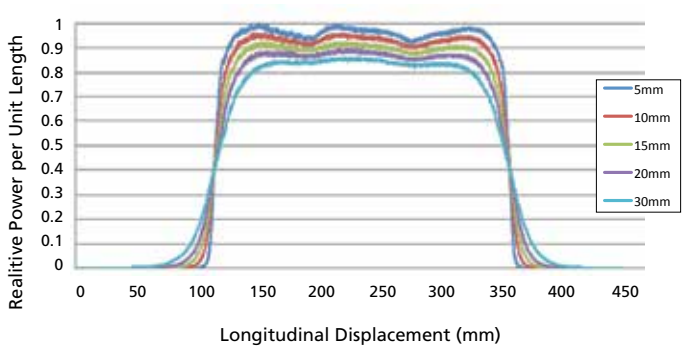
Utilizing air-cooled LED technology, the compact OmniCure AC8225-F+ and AC9225-F UV LED curing systems allow for seamless integration into new or existing production lines. Their innovative design eliminates the need for costly retooling, external cooling or ozone extraction. The AC8225-F+ and AC9225-F can also be mounted in any orientation for greater flexibility. External mechanical and optical accessories are also available upon request.

For mechanical drawings and further information about the OmniCure AC8225-F+ and AC9225-F UV LED curing systems, please contact us at omnicure@excelitas.com.

Superior Uniformity

The OmniCure AC8225-F+ and AC9225-F fiber curing systems utilize a patented process for addressing individual UV LED module outputs, to provide exceptional uniformity over the entire curing area. Multiple UV LED heads can be adjoined while maintaining optical uniformity between each system.

Uniformity – 395nm



Technical Specifications

		AC8225-F+	AC9225-F
Peak Wavelengths		395nm +/- 5nm	
Active Optical Area		225 x 15mm	
Typical Power Consumption*		600W	900W
Typical Peak Irradiance (W/cm²)			
Working Distance	10mm	16.3	21.8
	13mm	16.0	21.4
	15mm	15.3	20.7
	18mm	14.1	19.7
Longitudinal Uniformity*		Better than +/- 10%	
Operating Voltage		48 V DC +/- 2 V	
Dimensions (L x W x H)		235 x 80 x 220mm	
Weight (kg)		2.7	
Cooling		Air	
Life Expectancy (L70)		>40,000 hours	
Automation		Integrated PLC controls	
LED Warranty		3 years or 20,000 service hours	

*At 100% intensity setting.

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