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UV-LED CURING SYSTEM

Description

The UV-LED curing system can be used for curing inks, varnishes and other coatings hardening by UVA radiation. The system can be applied both in immovable and in movable parts of machines. UV-LED unit can be used at position from horizontal to vertical.

We use water cooling system that is the best way for cooling LED chips in the matrix. Low temperature of LED chips provides the maximum irradiance and long life period for UV-LED unit. We provide five-year warranty on the UV-LED units.



UV-LED units are delivered with power supply module and water chiller. One power supply module and one water chiller provide working of 4 UV-LED units. For customers buying from 1 to 4 UV-LED units we provide 1 water chiller and 1 power supply module free of charge.


Specification

		UV-LED unit
Emit zone		31x75mm
Bandwidth		360-370nm
Irradiance		1.6W/cm ²
Power consumption		DC 50V 3A
Controlling		5V DC 0,1A
Warming-up period		2sec
Quantity of on/off cycles		No limit
LED's operating temperature range		20 – 60 ⁰ C (typical 36 ⁰ C)
Contact interface		RS232
Dimensions	Length	122mm
	Height	140mm
	Width	70mm
Weight		1.4kg

Power supply PSP 500-48

Dimensions	Length	278mm	
	Height	63.5mm	
	Width	129mm	
Electricity		90 – 264V AC	
		50Hz	
		450W	
Weight		2.6kg	

Cooling system

Coolant		Distilled water with antioxidant additives	
Capacity		800kCal/h	
Water pressure		0.29bar (24L/h in the UV-LED unit)	
Electricity		220V AC	
		50Hz	
		500W	
Dimensions	Length	560mm	
	Height	310mm	
	Width	410mm	
Weight		16kg	

Pricing

The price for each UV-LED unit depends upon value of purchasing:

Quantity	Price for one UV-LED unit
From 1 to 10	4500 EUR
From 11 to 20	4000 EUR
More than 21	3200 EUR

Additions

We develop UV-LED based sources and attendant equipment. Next key features of existing UV LED unit can be easy modified:

- LED array's dimensions, therefore illuminate area and dosage of UV radiation on the substrate;
- Frame design and color;
- Assembling kit;
- Control interface and power supply interface.

We can create LED curing systems for your goals with special configuration and control system, adapt it for existing equipment.