

PHOTON™



UV LED Screen Print Curing System And Conveyor Dryer

FEATURES

- UV LED array runs cool, consumes less power, lasts longer, and increases conveyor belt longevity
- The finest UV LED screen printing conveyor dryer for graphics
- Belt widths from 61 cm to 183 cm (24" to 72")



M&R's Photon is the finest UV LED cure system available, and it represents a revolutionary advance over ferric/iron oxide, gallium, and mercury vapor light sources. Photon's UV LEDs run cool (very little heat is transferred to substrates), consume less power, last longer (up to 25,000 hours), and increase conveyor belt longevity. Photon's sheet sensor automatically turns LEDs on and off to further reduce power consumption. A powerful turbine holds down even lightweight substrates while the chamber is air cooled. LED temperature output is so low that cooling can be provided by the building's ambient air. Since Photon's UV LEDs run cool and generate no ozone, heating and cooling costs are reduced and exhaust air doesn't have to be vented outside. And since it has no reflectors or rotating lamps, Photon is easier to clean and maintain.

Photon's variable-frequency AC-drive motor powers M&R's Teflon-coated fiberglass Patriot Belt™ with the SureTrak™ roller system (U.S. Patents Pending: SN 15194035 & 15265538). The red flexible bead stitched along one edge of the Patriot Belt rides in grooves machined into the large anodized aluminum SureTrak rollers. It's the most precise dryer belt tracking available.

Photon employs a touchscreen control panel with fully integrated PLC control to access lamp settings, belt speed, timers, maintenance reminders, programming, and system status messages. Quick tool-free adjustments accommodate varying material thickness. Hinged housings provide easy access to internal components.

STANDARD FEATURES

AIR HANDLING

- Powerful turbine firmly holds down even lightweight stock

CERTIFICATION

- CE Certified: Built to specifications established by the European Committee for Standardization® (CE)
- UL Listed: Built to specifications established by Underwriters Laboratories® (UL)

CONVEYOR SYSTEM

- Patriot Belt™ with the SureTrak™ roller system features a heat-resistant, Teflon®-coated fiberglass belt with a red flexible bead stitched along one edge that rides in grooves machined into the large anodized aluminum rollers, providing the most precise belt tracking available (U.S. Patents Pending: SN 15194035 & 15265538)

CURE SYSTEM

- 395 nanometers
- Delivers optimal cure to heat-sensitive and heat-resistant stock
- Easy-access housing simplifies maintenance

DESIGN & CONSTRUCTION

- Air-cooled cabinet ensures long life for electrical components
- Interlock system with audible alarm automatically shuts down LED array when hood is lifted
- Sheet sensor automatically turns LEDs on and off to further reduce power consumption
- Tool-free adjustments allow operators to quickly accommodate material thickness

WARRANTY, SERVICE & SUPPORT

- 24-hour hotline is staffed 365 days a year
- Access to M&R's Training Center
- One-year limited warranty
- Parts & supplies are available online at store.mrprint.com

SPECIFICATIONS

	Photon 24-10	Photon 30-10	Photon 38-10	Photon 48-10	Photon 54-10	Photon 60-15	Photon 72-15
Belt Length	305 cm (10')	305 cm (10')	305 cm (10')	305 cm (10')	305 cm (10')	457 cm (15')	457 cm (15')
Electrical Requirements¹	208/230 V, 1 ph, 51/47 A, 50/60 Hz, 8.2 kW 208/230 V, 3 ph, 37/33 A, 50/60 Hz, 8.2 kW 380 V, 3 ph, 21 A, 50 Hz, 8.2 kW	208/230 V, 1 ph, 61/55 A, 50/60 Hz, 9.9 kW 208/230 V, 3 ph, 37/33 A, 50/60 Hz, 9.9 kW 380 V, 3 ph, 21 A, 50 Hz, 9.9 kW	208/230 V, 1 ph, 71/64 A, 50/60 Hz, 11.5 kW 208/230 V, 3 ph, 45/41 A, 50/60 Hz, 11.5 kW 380 V, 3 ph, 24 A, 50 Hz, 11.5 kW	208/230 V, 1 ph, 80/73 A, 50/60 Hz, 13.2 kW 208/230 V, 3 ph, 53/48 A, 50/60 Hz, 13.2 kW 380 V, 3 ph, 29 A, 50 Hz, 13.2 kW	208/230 V, 1 ph, 90/81 A, 50/60 Hz, 14.8 kW 208/230 V, 3 ph, 53/48 A, 50/60 Hz, 14.8 kW 380 V, 3 ph, 29 A, 50 Hz, 14.8 kW	208/230 V, 1 ph, 99/90 A, 50/60 Hz, 16.4 kW 208/230 V, 3 ph, 62/56 A, 50/60 Hz, 16.4 kW 380 V, 3 ph, 33 A, 50 Hz, 16.4 kW	208/230 V, 1 ph, 119/107 A, 50/60 Hz, 19.7 kW 208/230 V, 3 ph, 70/64 A, 50/60 Hz, 19.7 kW 380 V, 3 ph, 38 A, 50 Hz, 19.7 kW
LED & Belt Width	61 cm (24")	76 cm (30")	97 cm (38")	122 cm (48")	137 cm (54")	152 cm (60")	183 cm (72")
Shipping Weight	635 kg (1400 lb)	680 kg (1500 lb)	726 kg (1600 lb)	816 kg (1800 lb)	953 kg (2100 lb)	1043 kg (2300 lb)	1270 kg (2800 lb)

¹ If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly. Other electrical configurations are available: Contact The M&R Companies for details



M&R Sales and Service, Inc. 440 Medinah Road, Roselle, Illinois 60172-2329 USA
USA: 800-736-6431 / 630-858-6101 • Outside USA: +1-847-967-4461 • FAX: 630-858-6134

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