



Switchback™

UV Curing System

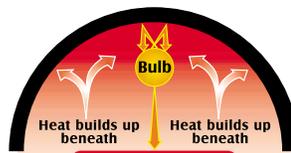
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Typical Reflector Design

Infrared reflection reduces life of bulb

Less UV energy reaching stock increases curing times.

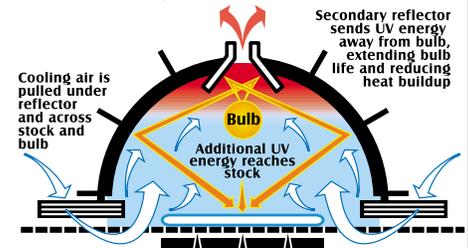


Excessive heat buildup can distort heat-sensitive stock.

M&R's Patented Secondary Reflector

(Patent No. 5,216,820)

Opening allows heat and ozone to escape from reflector chamber.



Vacuum Hold Down

Switchback

Switchback is the most sophisticated, versatile UV cure system available. It expands M&R's patented reflector technology by increasing lamp output to 400 watts/inch and adding infinitely variable adjustment (from 160 to 400 watts/inch). Switchback's reflector system can handle three interchangeable lamp types: Mercury Vapor (standard), Gallium, and Ferric (Iron) Oxide. Switchback automatically adapts to each lamp type. Operators do not have to be trained to change settings or move jumpers. It's as simple as changing a bulb. Because of the minimal time and effort required, operators can easily switch back and forth among the three bulb types. Since operators can maximize curing speed and minimize substrate temperatures by selecting the appropriate lamp, Switchback makes possible a perfect match for virtually every curing requirement.

The optional dual-lamp system offers additional benefits. When successive jobs require different UV sources but only one bulb, operators can keep a different bulb in each of the two reflectors. This allows them to switch repeatedly between substrates requiring different light sources by doing nothing more than activating the proper lamp. The ability to easily select the right lamp and fine-tune wattage enables the dual-lamp Switchback to provide the optimal cure at the fastest possible speeds.

All these features—400 watts/inch output, infinite wattage adjustment, interchangeable lamps, simplified bulb changing, and dual lamp versatility—speed setup operations, minimize operator skill requirements, and bring M&R's technological advances to bear on each substrate type for the best cure attainable. Like all M&R equipment, Switchbacks are built with M&R's unsurpassed commitment to quality, durability, and design excellence, and are backed by the best service and support in the industry.

Switchback™

UV Curing System



Standard Features

Air Handling

- Powerful turbines help keep substrates cool while firmly holding down even lightweight stock
- Unique reflector-top opening promotes the venting of heat and ozone and draws cool air across the substrate

Belt Operation

- Anodized aluminum conveyor rollers are designed to promote positive belt tracking
- Driven by reliable heavy-duty variable speed DC motor
- Heat resistant, Teflon®-coated fiberglass belt
- Solid-state belt speed controller
- Solid-state digital belt speed readout for easy duplication of speed settings

Belt widths

- 24" (61 cm), 38" (97 cm), 48" (122 cm), 54" (137), 60" (152 cm), & 72" (183 cm)

Bulb Operation

- Adjustable-focus UV bulbs adapt to both heat-sensitive and heat-receptive stock
- Elapsed digital time meter monitors bulb life
- Hinged bulb access for easy maintenance
- Models available in single lamp or double lamp design

Bulb Changing

- Change of bulb type requires no corresponding change of jumpers or settings

Bulb Types

- Gallium (Optional)
- Ferric (Iron) Oxide (Optional)
- Mercury Vapor (Standard)

Certification

- Panel listed by Underwriter's Laboratories® (UL)

Control Center

- Air-cooled cabinet assures long life for electrical components
- Digital amp meter
- Mobile control cabinet for easy operator access
- Solid-state design
- System-Saver allows blowers to continue to run in cooldown mode after reactor shutdown, then shuts them off automatically upon reaching programmed temperature
- Temperature displayed digitally

Design & Construction

- Assembled and tested at M&R's factory to assure turnkey operation
- Dual-Reflector System (patent #5,216,820) speeds curing and saves energy
- Entry/exit openings are adjustable
- Entry/exit UV shields are adjustable
- Rigid steel construction

Safety

- Interlock system with audible alarm automatically shuts down lamp when reflector hood is lifted

UV Settings

- Infinitely adjustable from 160-400 watts per inch

UV Bulb Positioning

- Adjustable (focused or unfocused)

Service

- 24-hour hotline

Training

- Access to M&R's Training Center

Warranty

- One-year limited

Options & Accessories

Bulb Types (Optional)

- Gallium
- Ferric (Iron) Oxide

Certification

- CE Compliant (Built to specifications established by the European Committee for Standardization®)

Custom Models

- Custom conveyor lengths

Electrical

- 3-phase models available
- Other electrical voltages available

Specifications

Electrical Requirements* @ 400 Watts/Inch

Model	Lamp & Belt Width	Lamps	Belt Length	208/230v, 1-phase, 60 HZ	208/230v, 3-phase, 60 HZ	460v, 3-phase, 60 HZ	Weight
24-10	24" (61 cm)	1	10' (3.05 m)	65/61 amps	61/58 amps	28 amps	2000 lbs (907 kg)
24-15-2	24" (61 cm)	2	15' (4.57 m)	130/122 amps	122/116 amps	56 amps	3400 lbs (1542 kg)
38-10	38" (97 cm)	1	10' (3.05 m)	95/87 amps	91/83 amps	41 amps	2200 lbs (998 kg)
38-15-2	38" (97 cm)	2	15' (4.57 m)	190/174 amps	182/166 amps	82 amps	3700 lbs (1678 kg)
48-10	48" (122 cm)	1	10' (3.05 m)	122/112 amps	114/104 amps	52 amps	2400 lbs (1089 kg)
48-15-2	48" (122 cm)	2	15' (4.57 m)	244/224 amps	228/208 amps	104 amps	4000 lbs (1814 kg)
54-10	54" (137 cm)	1	10' (3.05 m)	134/124 amps	126/116 amps	57 amps	2700 lbs (1225 kg)
54-15-2	54" (137 cm)	2	15' (4.57 m)	268/248 amps	252/232 amps	114 amps	4300 lbs (1951 kg)
60-15	60" (152 cm)	1	15' (4.57 m)	147/135 amps	139/127 amps	63 amps	2900 lbs (1315 kg)
60-15-2	60" (152 cm)	2	15' (4.57 m)	294/270 amps	278/254 amps	126 amps	4500 lbs (2041 kg)
72-15	72" (183 cm)	1	15' (4.57 m)	172/158 amps	164/150 amps	74 amps	3400 lbs (1542 kg)
72-15-2	72" (183 cm)	2	15' (4.57 m)	344/316 amps	328/300 amps	148 amps	5200 lbs (2359 kg)

* If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly

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