



# Vitran II<sup>TM</sup>

UV Curing System

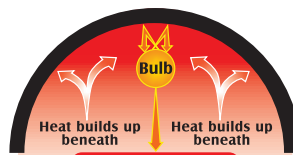
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### Typical Reflector Design

Infrared reflection reduces life of bulb

Less UV energy reaching stock increases curing times.

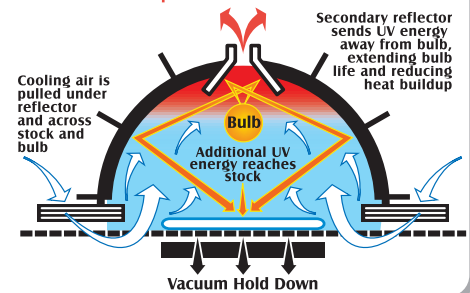


Excessive heat buildup can distort heat-sensitive stock.

### M&R's Patented Secondary Reflector

(Patent No. 5,216,820)

Opening allows heat and ozone to escape from reflector chamber.



## Vitran II

Vitran brought M&R's patented dual-reflector technology to UV curing. The UV energy loss typical of other curing systems results in higher costs and slower running, hotter operating units. Vitran II uses a secondary reflector—positioned at the top of the primary reflector—to capture the energy that normally bounces down onto the lamp. The secondary reflector redirects this UV energy onto the substrate, speeding the curing process while saving energy and prolonging bulb life. The dual-reflector on Vitran II also has a top opening to draw out heated air and ozone and pull ambient air across the belt to cool the substrate. Powerful turbines help keep the substrate cool while firmly holding down even lightweight stock. The adjustable UV lamp on Vitran II can be focused to cure heat-sensitive substrates (like vinyl) or unfocused for heavier substrates (like glass or metal). The result of M&R's innovation is a curing process that is cool, fast, and cost effective.

Vitran II is available in 300-watt/inch and 400-watt/inch and single and double lamp versions. Vitran II-300 has wattage settings of 125, 200, 250 and 300; Vitran II-400 has wattage settings of 160, 200, 300, and 400.

Like all M&R equipment, Vitran II is built with M&R's unsurpassed commitment to quality, durability, and design excellence, and is backed by the best service and support in the industry. If you're looking for UV curing that's fast, cool, and efficient, look to Vitran II.

# Vitran II™

## UV Curing System



### Standard Features

#### Air Handling

- Powerful turbines help keep substrate 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

#### 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

#### 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 Bulb Positioning

- Adjustable (focused or unfocused)

#### Service

- 24-hour hotline

#### Training

- Access to M&R's Training Center

#### Warranty

- One-year limited

### Options & Accessories

#### Certification

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

#### Conveyor Length

- Optional lengths available

#### Electrical

- 3-phase models available
- Other voltages available

### SPECIFICATIONS

Model	Lamp & Belt Width	Belt Length	Lamps	Electrical Requirements* @ 300 Watts/Inch			Electrical Requirements* @ 400 Watts/Inch			Weight
				208/230v 1 Phase 60 Hz	208/230v 3 Phase 60 Hz	460v 3 Phase 60 Hz	208/230v 1 Phase 60 Hz	208/230v 3 Phase 60 Hz	460v 3 Phase 60 Hz	
24-10	24" (.61 m)	10' (3.05 m)	1	51/48 amps	49/45 amps	23 amps	65/61 amps	61/58 amps	28 amps	1400 lbs (635 kg)
24-15-2	24" (.61 m)	15' (4.57 m)	2	102/96 amps	98/90 amps	46 amps	130/122 amps	122/116 amps	56 amps	2200 lbs (998 kg)
38-10	38" (.97 m)	10' (3.05 m)	1	74/69 amps	71/65 amps	34 amps	95/87 amps	91/83 amps	41 amps	1600 lbs (726 kg)
38-15-2	38" (.97 m)	15' (4.57 m)	2	148/138 amps	142/130 amps	68 amps	190/174 amps	182/166 amps	82 amps	2500 lbs (1134 kg)
48-10	48" (1.22 m)	10' (3.05 m)	1	96/88 amps	89/81 amps	43 amps	122/112 amps	114/104 amps	52 amps	1800 lbs (816 kg)
48-15-2	48" (1.22 m)	15' (4.57 m)	2	192/176 amps	188/162 amps	86 amps	244/224 amps	228/208 amps	104 amps	2800 lbs (1270 kg)
54-10	54" (1.37 m)	10' (3.05 m)	1	106/97 amps	98/90 amps	48 amps	134/124 amps	126/116 amps	57 amps	2100 lbs (953 kg)
54-15-2	54" (1.37 m)	15' (4.57 m)	2	212/194 amps	196/180 amps	96 amps	268/248 amps	252/232 amps	114 amps	3100 lbs (1406 kg)
60-15	60" (1.52 m)	15' (4.57 m)	1	116/106 amps	108/98 amps	52 amps	147/135 amps	139/127 amps	63 amps	2300 lbs (1043 kg)
60-15-2	60" (1.52 m)	15' (4.57 m)	2	232/212 amps	216/196 amps	104 amps	294/270 amps	278/254 amps	126 amps	3300 lbs (1497 kg)
72-15	72" (1.83 m)	15' (4.57 m)	1	134/124 amps	130/118 amps	60 amps	172/158 amps	164/150 amps	74 amps	2800 lbs (1270 kg)
72-15-2	72" (1.83 m)	15' (4.57 m)	2	268/248 amps	260/236 amps	120 amps	344/316 amps	328/300 amps	148 amps	4000 lbs (1814 kg)

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

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