

VITRAN™ II



UV Curing System



FEATURES

- Belt widths from 61 to 213 cm (24" to 84")
- Choice of single or double lamps and 118 watts/cm (300 watts/in) or 157 watts/cm (400 watts/in) systems
- Patented dual-reflector technology

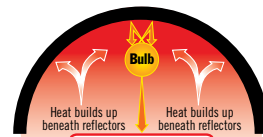
Vitran II brought M&R's patented dual-reflector technology to UV curing. The UV energy loss typical of other curing systems results in higher costs and slower running, hotter operating units. Vitran II uses a secondary reflector—positioned at the top of the primary reflector—to capture the energy that 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 lamp life.

Open-top reflector chambers allow heat and ozone to escape. Powerful turbines hold down even lightweight substrates while drawing cool air under the reflector and across the belt and lamps. Adjustable UV lamps can be focused to cure heat-sensitive substrates (like vinyl) or unfocused for heavier substrates (like glass or metal). Vitran II is available in eight standard belt widths, from 61 to 213 cm (24" to 84"). Every model offers the choice of 118 watts/cm (300 watts/in)

Typical Reflector Design

Infrared reflection reduces life of bulb

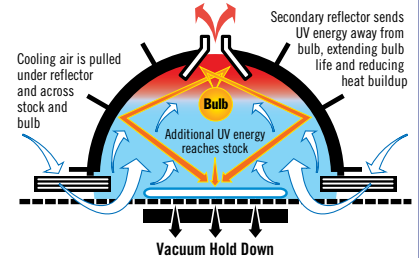
Less UV energy reaching stock increases curing times.



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.



or 157 watts/cm (400 watts/in) maximum power settings—in single and double lamp versions. Vitran II-300 can be set at 49, 79, 98, or 118 watts/cm (125, 200, 250, or 300 watts/in). Vitran II-400 can be set at 63, 79, 118, and 157 watts/cm (160, 200, 300, and 400 watts/in).

M&R's SystemSaver™ automatic shutdown sequence keeps the blower and belt running until the chamber has cooled. Vitran II also features a digital elapsed time meter to monitor lamp life, digital belt speed readout, digital amp meter, hinged housings for easy access to lamps, and a moveable control cabinet for easy maintenance. Each Vitran II is driven by a reliable, heavy-duty, variable-speed DC electric motor, with large anodized aluminum rollers, crowned for positive belt tracking.

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STANDARD FEATURES

Air Handling

- Powerful turbines help keep substrates cool while firmly holding down even lightweight stock
- Unique reflector-top opening design purges heated air and ozone

Certification

- CE & UL compliant: Built to specifications established by the European Committee for Standardization® (CE) and Underwriters Laboratories® (UL)

Control Center

- Automatic shutdown sequence keeps the blower and belt running until the chamber has cooled
- Digital amp meter
- Digital temperature display
- Mobile control cabinet for easy operator access

Conveyor System

- Conveyor belt is made of heat-resistant, Teflon®-coated fiberglass
- Digital belt speed readout makes it easy to duplicate speed settings
- Driven by a reliable, heavy-duty, variable-speed DC electric motor
- Large anodized aluminum rollers are crowned for positive belt tracking

Cure System

- 118 watts/cm (300 watts/in) cure system can be set at 49, 79, 98, or 118 watts/cm (125, 200, 250, or 300 watts/in)
- 157 watts/cm (400 watts/in) system can be set at 63, 79, 118, and 157 watts/cm (160, 200, 300, and 400 watts/in)
- Adjustable-focus UV lamps adapt to substrates of varying thickness
- Choice of single lamp or double lamp design
- Delivers optimal cure to heat-sensitive and heat-resistant stock
- Digital elapsed time meter monitors lamp life
- Dual UV lamps (individually controlled)
- Easy-access housing simplifies maintenance and lamp changing

Design & Construction

- Air-cooled cabinet ensures long life for electrical components
- Dual-Reflector System (U.S. Patent No. 5,216,820) speeds curing and saves energy
- Entry/exit openings and UV shields are adjustable
- Interlock system with audible alarm automatically shuts down lamp when reflector hood is lifted

Warranty, Service & Support

- 24-hour hotline is staffed 365 days a year
- Access to M&R's Training Center
- One-year limited warranty

SPECIFICATIONS

	Vitrان II 24-10	Vitrان II 24-15-2	Vitrان II 30-10	Vitrان II 30-15-2	Vitrان II 38-10	Vitrان II 38-15-2	Vitrان II 48-10	Vitrان II 48-15-2
Lamp & Belt Width	61 cm (24")	61 cm (24")	76 cm (30")	76 cm (30")	97 cm (38")	97 cm (38")	122 cm (48")	122 cm (48")
Belt Length	305 cm (10')	457 cm (15')	305 cm (10')	457 cm (15')	305 cm (10')	457 cm (15')	305 cm (10')	457 cm (15')
Lamps	1	2	1	2	1	2	1	2
Electrical Requirements @ 118 watts/cm (300 watts/in)¹	208/230 V, 1 ph, 51/48 A, 50/60 Hz, 11 kW 208/230 V, 3 ph, 49/45 A, 50/60 Hz, 10.5 kW 400 V, 3 ph, 30 A, 50 Hz, 10.5 kW 460 V, 3 ph, 23 A, 50/60 Hz, 10.5 kW	208/230 V, 1 ph, 102/96 A, 50/60 Hz, 22 kW 208/230 V, 3 ph, 98/90 A, 50/60 Hz, 21 kW 400 V, 3 ph, 60 A, 50 Hz, 21 kW 460 V, 3 ph, 46 A, 50/60 Hz, 21 kW	208/230 V, 1 ph, 60/56 A, 50/60 Hz, 13 kW 208/230 V, 3 ph, 57/53 A, 50/60 Hz, 12 kW 400 V, 3 ph, 35 A, 50 Hz, 12 kW 460 V, 3 ph, 27 A, 50/60 Hz, 12 kW	208/230 V, 1 ph, 120/112 A, 50/60 Hz, 26 kW 208/230 V, 3 ph, 114/106 A, 50/60 Hz, 24 kW 400 V, 3 ph, 70 A, 50 Hz, 24 kW 460 V, 3 ph, 54 A, 50/60 Hz, 24 kW	208/230 V, 1 ph, 74/69 A, 50/60 Hz, 16 kW 208/230 V, 3 ph, 71/65 A, 50/60 Hz, 15 kW 400 V, 3 ph, 43 A, 50 Hz, 15 kW 460 V, 3 ph, 34 A, 50/60 Hz, 15 kW	208/230 V, 1 ph, 148/138 A, 50/60 Hz, 32 kW 208/230 V, 3 ph, 142/130 A, 50/60 Hz, 30 kW 400 V, 3 ph, 86 A, 50 Hz, 30 kW 460 V, 3 ph, 68 A, 50/60 Hz, 30 kW	208/230 V, 1 ph, 96/88 A, 50/60 Hz, 20 kW 208/230 V, 3 ph, 89/81 A, 50/60 Hz, 19 kW 400 V, 3 ph, 54 A, 50 Hz, 19 kW 460 V, 3 ph, 43 A, 50/60 Hz, 19 kW	208/230 V, 1 ph, 192/176 A, 50/60 Hz, 40 kW 208/230 V, 3 ph, 178/162 A, 50/60 Hz, 38 kW 400 V, 3 ph, 108 A, 50 Hz, 38 kW 460 V, 3 ph, 86 A, 50/60 Hz, 38 kW
Electrical Requirements @ 157 watts/cm (400 watts/in)¹	208/230 V, 1 ph, 65/61 A, 50/60 Hz, 14 kW 208/230 V, 3 ph, 61/58 A, 50/60 Hz, 13 kW 400 V, 3 ph, 36 A, 50 Hz, 13 kW 460 V, 3 ph, 28 A, 50/60 Hz, 13 kW	208/230 V, 1 ph, 130/122 A, 50/60 Hz, 28 kW 208/230 V, 3 ph, 122/116 A, 50/60 Hz, 26 kW 400 V, 3 ph, 72 A, 50 Hz, 26 kW 460 V, 3 ph, 56 A, 50/60 Hz, 26 kW	208/230 V, 1 ph, 76/70 A, 50/60 Hz, 16 kW 208/230 V, 3 ph, 73/67 A, 50/60 Hz, 15 kW 400 V, 3 ph, 43 A, 50 Hz, 15 kW 460 V, 3 ph, 34.5 A, 50/60 Hz, 15 kW	208/230 V, 1 ph, 152/140 A, 50/60 Hz, 32 kW 208/230 V, 3 ph, 146/134 A, 50/60 Hz, 30 kW 400 V, 3 ph, 86 A, 50 Hz, 30 kW 460 V, 3 ph, 69 A, 50/60 Hz, 30 kW	208/230 V, 1 ph, 95/87 A, 50/60 Hz, 20 kW 208/230 V, 3 ph, 91/83 A, 50/60 Hz, 19 kW 400 V, 3 ph, 52 A, 50 Hz, 19 kW 460 V, 3 ph, 41 A, 50/60 Hz, 19 kW	208/230 V, 1 ph, 190/174 A, 50/60 Hz, 40 kW 208/230 V, 3 ph, 182/166 A, 50/60 Hz, 38 kW 400 V, 3 ph, 104 A, 50 Hz, 38 kW 460 V, 3 ph, 82 A, 50/60 Hz, 38 kW	208/230 V, 1 ph, 122/112 A, 50/60 Hz, 25.5 kW 208/230 V, 3 ph, 114/104 A, 50/60 Hz, 24 kW 400 V, 3 ph, 66 A, 50 Hz, 24 kW 460 V, 3 ph, 52 A, 50/60 Hz, 24 kW	208/230 V, 1 ph, 244/224 A, 50/60 Hz, 51 kW 208/230 V, 3 ph, 228/208 A, 50/60 Hz, 48 kW 400 V, 3 ph, 132 A, 50 Hz, 48 kW 460 V, 3 ph, 104 A, 50/60 Hz, 48 kW
Shipping Weight	635 kg (1400 lb)	998 kg (2200 lb)	680 kg (1500 lb)	1066 kg (2350 lb)	726 kg (1600 lb)	1134 kg (2500 lb)	816 kg (1800 lb)	1270 kg (2800 lb)

	Vitrان II 54-10	Vitrان II 54-15-2	Vitrان II 60-15	Vitrان II 60-15-2	Vitrان II 72-15	Vitrان II 72-15-2	Vitrان II 84-10	Vitrان II 84-15-2
Lamp & Belt Width	137 cm (54")	137 cm (54")	152 cm (60")	152 cm (60")	183 cm (72")	183 cm (72")	213 cm (84")	213 cm (84")
Belt Length	305 cm (10')	457 cm (15')	457 cm (15')	457 cm (15')	457 cm (15')	457 cm (15')	305 cm (10')	457 cm (15')
Lamps	1	2	1	2	1	2	1	2
Electrical Requirements @ 118 watts/cm (300 watts/in)¹	208/230 V, 1 ph, 106/97 A, 50/60 Hz, 22 kW 208/230 V, 3 ph, 98/90 A, 50/60 Hz, 20.5 kW 400 V, 3 ph, 59 A, 50 Hz, 20.5 kW 460 V, 3 ph, 48 A, 50/60 Hz, 20.5 kW	208/230 V, 1 ph, 212/194 A, 50/60 Hz, 44 kW 208/230 V, 3 ph, 196/180 A, 50/60 Hz, 41 kW 400 V, 3 ph, 118 A, 50 Hz, 41 kW 460 V, 3 ph, 96 A, 50/60 Hz, 41 kW	208/230 V, 1 ph, 116/106 A, 50/60 Hz, 24 kW 208/230 V, 3 ph, 108/98 A, 50/60 Hz, 22.5 kW 400 V, 3 ph, 65 A, 50 Hz, 22.5 kW 460 V, 3 ph, 52 A, 50/60 Hz, 22.5 kW	208/230 V, 1 ph, 232/212 A, 50/60 Hz, 48 kW 208/230 V, 3 ph, 216/196 A, 50/60 Hz, 45 kW 400 V, 3 ph, 130 A, 50 Hz, 45 kW 460 V, 3 ph, 104 A, 50/60 Hz, 45 kW	208/230 V, 1 ph, 134/124 A, 50/60 Hz, 28 kW 208/230 V, 3 ph, 130/118 A, 50/60 Hz, 27 kW 400 V, 3 ph, 73 A, 50 Hz, 27 kW 460 V, 3 ph, 60 A, 50/60 Hz, 27 kW	208/230 V, 1 ph, 268/248 A, 50/60 Hz, 56 kW 208/230 V, 3 ph, 260/236 A, 50/60 Hz, 54 kW 400 V, 3 ph, 146 A, 50 Hz, 54 kW 460 V, 3 ph, 120 A, 50/60 Hz, 54 kW	400 V, 3 ph, 85 A, 50 Hz, 32 kW 460 V, 3 ph, 67 A, 50/60 Hz, 32 kW	400 V, 3 ph, 170 A, 50 Hz, 64 kW 460 V, 3 ph, 134 A, 50/60 Hz, 64 kW
Electrical Requirements @ 157 watts/cm (400 watts/in)¹	208/230 V, 1 ph, 134/124 A, 50/60 Hz, 28 kW 208/230 V, 3 ph, 126/116 A, 50/60 Hz, 27 kW 400 V, 3 ph, 73 A, 50 Hz, 27 kW 460 V, 3 ph, 57 A, 50/60 Hz, 27 kW	208/230 V, 1 ph, 268/248 A, 50/60 Hz, 56 kW 208/230 V, 3 ph, 252/232 A, 50/60 Hz, 54 kW 400 V, 3 ph, 146 A, 50 Hz, 54 kW 460 V, 3 ph, 114 A, 50/60 Hz, 54 kW	208/230 V, 1 ph, 147/135 A, 50/60 Hz, 31 kW 208/230 V, 3 ph, 139/127 A, 50/60 Hz, 29.5 kW 400 V, 3 ph, 80 A, 50 Hz, 29.5 kW 460 V, 3 ph, 63 A, 50/60 Hz, 29.5 kW	208/230 V, 1 ph, 294/270 A, 50/60 Hz, 62 kW 208/230 V, 3 ph, 278/254 A, 50/60 Hz, 59 kW 400 V, 3 ph, 160 A, 50 Hz, 59 kW 460 V, 3 ph, 126 A, 50/60 Hz, 59 kW	208/230 V, 1 ph, 172/158 A, 50/60 Hz, 36 kW 208/230 V, 3 ph, 164/150 A, 50/60 Hz, 34.5 kW 400 V, 3 ph, 94 A, 50 Hz, 34.5 kW 460 V, 3 ph, 74 A, 50/60 Hz, 34.5 kW	208/230 V, 1 ph, 344/316 A, 50/60 Hz, 72 kW 208/230 V, 3 ph, 328/300 A, 50/60 Hz, 69 kW 400 V, 3 ph, 188 A, 50 Hz, 69 kW 460 V, 3 ph, 148 A, 50/60 Hz, 69 kW	400 V, 3 ph, 107 A, 50 Hz, 40 kW 460 V, 3 ph, 87 A, 50/60 Hz, 40 kW	400 V, 3 ph, 214 A, 50 Hz, 80 kW 460 V, 3 ph, 174 A, 50/60 Hz, 80 kW
Shipping Weight	953 kg (2100 lb)	1406 kg (3100 lb)	1043 kg (2300 lb)	1497 kg (3300 lb)	1270 kg (2800 lb)	1814 kg (4000 lb)	1482 kg (3267 lb)	2117 kg (4667 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.



The M&R Companies
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The M&R Companies 1 N. 372 Main Street, Glen Ellyn, Illinois 60137-3576 USA

USA: 800-736-6431 / 630-858-6101 / Fax: 630-858-6134 • Outside USA: +847-967-4461 / Fax: +847-967-0417

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