Screen Printing Conveyor Dryers

**FEATURES**

- The finest UV screen printing conveyor dryers for graphics
- Belt widths from 61 cm to 183 cm (24” to 72”)
- Dual-reflector technology

Switchback and Vitran II are the finest UV cure systems available. M&R’s dual-reflector technology delivers faster curing, lower energy costs, and cooler operation. Each system 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).

M&R’s SystemSaver™ automatic shutdown sequence keeps the blower and belt running until the chamber has cooled. Hinged housings provide easy access to lamps, and a moveable control cabinet simplifies maintenance. Both systems are driven by reliable, heavy-duty, variable-speed DC electric motors. Large crowned anodized aluminum rollers provide positive belt tracking. Switchback features a temperature controller with digital display, digital elapsed-time meter to monitor lamp life, a digital amp meter, and digital belt-speed readout. Vitran II employs a touchscreen control panel to access lamp settings, timers, maintenance reminders, programming, and system status messages.

Vitran II is available in eight standard belt widths, from 61 cm (24”) to 183 cm (72”). Every model offers the choice of 118 watts/cm (300 watts/in) 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). Switchback is infinitely adjustable from 63 to 157 watts/cm (160 to 400 watts/in), and accepts three types of UV lamps—Ferric/Iron Oxide, Gallium, and Mercury Vapor (standard)—allowing operators to select the optimal curing source and intensity for even the most difficult ink/substrate combinations. Switchback’s optional dual-lamp system enables operators to keep a different lamp in each reflector. When successive jobs require a different UV source but only one lamp, operators can simply activate the appropriate lamp. The ability to easily select the right lamp and to fine-tune wattage enables the dual-lamp Switchback to provide the optimal cure at the fastest possible speeds.

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**STANDARD FEATURES**

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

**CERTIFICATION**
- CE Certified. Built to specifications established by the European Committee for Standardization (CE)
- UL Listed. Built to specifications established by 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

**LAMP TYPES OPTIONS**

- **Certification**
  - CE Certified: Built to specifications established by the European Power distribution system
  - Powerful turbines help keep substrates cool while firmly holding down lightweight stock.

**CONVEYOR SYSTEM**
- Convoyer belt is made of heat-resistant, Teflon-coated fiberglass
- Digital belt speed modulator 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**
- 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
- Easy-access housing simplifies maintenance and lamp changing
- Switchback Cure System—infinitely adjustable from 63 to 157 watts/cm (160 to 400 watts/in)—accepts three types of UV lamps: Mercury Vapor, Ferric/Iron Oxide, and Gallium, allowing operators to select the optimal curing source and intensity for even the most difficult ink/substrate combinations

**DESIGN & CONSTRUCTION**
- Air-cooled cabinet ensures long life for electrical components
- Dual-Reflector System speeds curing and saves energy
- Entrepôt 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 charged 365 days a year
- Access to M&R's Training Center
- One-year limited warranty
- Parts & supplies are available online at mmprint.com

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**OPTIONS**

- Ferric/Iron Oxide (Switchback)
- Mercury Vapor (Switchback & Vitran II)

**SPECIFICATIONS**

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<tbody>
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<td>Lamps</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
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<tr>
<td>Shipping Weight</td>
<td>907 kg (2000 lb)</td>
<td>996 kg (2200 lb)</td>
<td>1254 kg (2760 lb)</td>
<td>1610 kg (3500 lb)</td>
<td>1989 kg (4400 lb)</td>
<td>1999 kg (4400 lb)</td>
<td>2203 kg (4800 lb)</td>
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<td>2351 kg (5190 lb)</td>
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<td>50/60 Hz, 13 kW</td>
<td>50/60 Hz, 14 kW</td>
<td>50/60 Hz, 15 kW</td>
<td>50/60 Hz, 16 kW</td>
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<td>50/60 Hz, 18 kW</td>
<td>50/60 Hz, 19 kW</td>
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<td>0.002 (30 watts/in)</td>
<td>0.003 (45 watts/in)</td>
<td>0.004 (60 watts/in)</td>
<td>0.005 (75 watts/in)</td>
<td>0.006 (90 watts/in)</td>
<td>0.007 (105 watts/in)</td>
<td>0.008 (120 watts/in)</td>
<td>0.009 (135 watts/in)</td>
<td>0.010 (150 watts/in)</td>
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<tr>
<td>Lamp &amp; Belt Width</td>
<td>61 cm (24&quot;)</td>
<td>61 cm (24&quot;)</td>
<td>76 cm (30&quot;)</td>
<td>76 cm (30&quot;)</td>
<td>97 cm (38&quot;)</td>
<td>97 cm (38&quot;)</td>
<td>122 cm (48&quot;)</td>
<td>122 cm (48&quot;)</td>
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<td>Belt Length</td>
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<td>60 cm (24&quot;)</td>
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<td>76 cm (30&quot;)</td>
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**OPTIONS**

- Ferric/Iron Oxide (Switchback)
- Mercury Vapor (Switchback & Vitran II)

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