



Lab-6™ & Lab-12™

UV Curing Systems

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Lab-6

Lab-6 & Lab-12

Lab-6 & Lab-12 UV Systems are M&R's most compact curing units. They're perfect for color matching and for the economical curing of small substrates. Their extremely compact size makes them ideal for ink rooms, laboratories, or anywhere substrates are small and space or economy is an issue. The Lab Cure System is also available in a Switchback version. Printers can team a Lab UV with M&R's Vitran II System, or a Lab UV Switchback with a standard Switchback System, for pre-production testing of opacity and adhesion. It's the most effective way to ensure exceptional quality while maximizing productivity.

All standard Lab Cure Systems feature 400-watt Mercury Vapor lamps with selector settings of 160, 200, 300, & 400 watts/inch. Switchback Lab Cure Systems feature 400-watt Mercury Vapor lamps with infinite wattage settings from 160-400 watts/inch. Switchbacks are optionally available with Gallium or Ferric (Iron) Oxide lamps, making it easy to test inks and substrates with the optimal curing source. Easy-access lamp housings make lamp change-out simple, and lamp types in Switchback models can be changed without a corresponding change of jumpers or settings. Both models feature the same patented reflector system as Vitran II and Switchback. Solid-state belt speed controllers ensure belt speed accuracy, and digital belt speed readouts allow easy duplication of speed settings. Switchback models feature digital wattage meters, and each unit features an air-cooled reflector housing and control cabinet, digital amp meters, M&R's System-Saver, and a digital elapsed time meter.

Like all M&R equipment, Lab UV Cure Systems are built with M&R's unsurpassed commitment to quality, durability, and design excellence, and are backed by M&R's unparalleled service and support. If you're looking for UV curing that's fast, cool, efficient—and ultra-compact—look to Lab UV.

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UV Curing Systems

Standard Features

Air Handling

- Powerful top-mounted fan (dual fans on 12" (30 cm) models) drives cooling air through the reflector and across the belt to keep the substrate cool during curing
- Turbine-driven blower is bottom-mounted to keep substrates in place as it draws heat and ozone down and out of the unit

Belt Width

- 6" (15 cm) & 12" (30 cm)

Certification

- Panel meets Underwriter's Laboratories® (UL) standards and carries the UL label

Control Center

- Air-cooled cabinet assures long life for electrical components
- Digital amp meter
- Digital elapsed time meter
- Digital wattage meter (Lab Switchback only)
- Solid-state design
- System-Saver allows blowers and belt to continue to run in cooldown mode after burner shutdown, then shut off automatically upon reaching the cooldown target temperature

Conveyor System

- Conveyor belt is made of heat and UV resistant, Teflon®-coated fiberglass
- Driven by a reliable, heavy-duty, variable speed AC motor
- Large diameter crowned aluminum conveyor rollers promote positive belt tracking
- Solid-state belt speed controller
- Solid-state digital belt speed readout makes it easy to duplicate speed settings

Design & Construction

- Adjustable entry/exit openings
- Adjustable entry/exit UV shields
- Assembled and tested at M&R's factory to assure turnkey operation
- Constructed of rigid steel and premium components
- Dual-Reflector System (U.S. Patent No. 5,216,820) speeds curing and saves energy

Lamp Operation

- Change of lamp type requires no corresponding change of jumpers or settings (Lab Switchback only)
- Easy access for lamp change-out
- Elapsed digital time meter monitors lamp life

Lamp Types

- Gallium (Lab Switchback option)
- Ferric (Iron) Oxide (Lab Switchback option)
- Mercury Vapor (Standard)

UV Settings

- 400-Watt Standard System settings of 160, 200, 300, & 400 watts/inch
- 400-Watt Switchback System with infinite wattage settings from 160-400 watts/inch

Service

- 24-hour hotline

Training

- Access to M&R's Training Center

Warranty

- One-year limited



Lab-12 Switchback with optional floor stand

Options & Accessories

Certification

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

Electrical

- Available in three-phase

Floor Stand

Lamp Types

- Gallium (Lab Switchback option)
- Ferric (Iron) Oxide (Lab Switchback option)

SPECIFICATIONS

Model	Lamp & Belt Width	Lamps	Fans	Belt Length	Size (HxWxD)	Electrical Requirements*	Shipping Weight
Lab-6	6" (15.24 cm)	1	1	27" (68.6 cm)	44.7" x 32.7" x 18" (114 x 83 x 46 cm)	208/230v, 1 phase 19/17.5 amps, 60 Hz	324 lbs (147 kg)
Lab-12	12" (30.48 cm)	1	2	27" (68.6 cm)	44.7" x 32.7" x 24" (114 x 83 x 61 cm)	208/230v, 1 phase 31/29.0 amps, 60 Hz	448 lbs (203 kg)
Lab-6 Switchback	6" (15.24 cm)	1	1	27" (68.6 cm)	44.7" x 32.7" x 18" (114 x 83 x 46 cm)	208/230v, 1 phase 19/17.5 amps, 60 Hz	324 lbs (147 kg)
Lab-12 Switchback	12" (30.48 cm)	1	2	27" (68.6 cm)	44.7" x 32.7" x 24" (114 x 83 x 61 cm)	208/230v, 1 phase 31/29.0 amps, 60 Hz	448 lbs (203 kg)

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

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