

RADICURE™ D



Electric Infrared Textile Dryer



FEATURES

- Belt width 91 to 152 cm (36" to 60")
- Heat chamber length 183 to 305 cm (6' to 10')
- Patented suspended insulating system

Built for long life and maximum performance, Radicure D is M&R's premium infrared electric textile dryer. It's available in belt widths from 91 to 152 cm (36" to 60"). Not only does it have the highest production capacity in its class, it's also the most energy efficient. The heavy-duty thermal insulation in M&R's patented suspended-fabric insulating system prevents heat from migrating into the workplace, while CoolSkin™ technology leaves the dryer skin cool to the touch. Fast cure rates and high product throughput maximize dryer capacity and minimize per-unit cost.

Curing is provided by an infrared radiant panel array and forced hot air. Panels can be quickly and easily raised and lowered with convenient single-point height adjustment. Separate dedicated blowers power circulation and exhaust. Radicure D's Proportional Integral Differential (PID) Control allows the dryer to power up gradually to avoid maximum amperage loads during initial warmup.

PID also helps maintain even temperatures during production by phasing on and off rather than using the full-load/no-load approach. The control panel allows easy monitoring and adjustment of operational status, temperature, and belt speed settings. Process temperatures and set temperatures are controlled digitally. Temperature consistency is ensured by a fuzzy-logic controller, which responds to ambient temperature changes by keeping chamber heat within 1° of target temperature at the thermocouple.

A tower light shows when temperatures are within user-set parameters. Entry and exit openings are adjustable, and large, crowned rollers ensure positive belt tracking. Maintenance is simplified with easy-to-reach filters and lubrication points. An automatic shut-down sequence keeps the blower and belt running until the chamber has cooled.

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STANDARD FEATURES

Air Handling

- Adjustable air displacement and evacuation systems
- Enhanced airflow accelerates drying/curing
- Exhaust blower on 3 & 4-panel models evacuates up to 14 017 l/min (495 cfm)
- Exhaust blower on 6-panel models evacuates up to 68 867 l/min (2432 cfm)
- High-volume circulation blower reduces energy costs
- Stainless steel filter slides out for easy cleaning
- Two separate dedicated blowers (circulation and exhaust)

Certification

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

Control Center

- Automatic Cool-Down Mode: After the dryer has been turned off, the circulation blower and conveyor belt will continue to run until the heat chamber has cooled
- Digital temperature readout shows set-point temperature and actual temperature in real time
- PID (Proportional Integral Differential) allows the dryer to power up gradually to avoid maximum amperage loads during initial warmup

- PID (Proportional Integral Differential) helps maintain even temperatures during production by phasing on and off rather than using the full-load/no-load approach
- Tower light indicates when temperatures are within user-set tolerances

Conveyor System

- Conveyor belt is made of heat-resistant, Teflon®-coated fiberglass
- Digital belt speed readout makes it easy to duplicate speed settings
- Large anodized aluminum rollers are crowned for positive belt tracking
- Maintenance-free, brushless AC electric motor with variable-frequency drive provides reliable, accurate belt-speed control
- Minimum belt speed: 91 cm (36") per minute

Design & Construction

- Adjustable entry/exit openings
- Air-cooled cabinet ensures long life for electrical components
- Circuit breakers allow easy reset
- Low-profile design makes it easier to see over the dryer

Energy Efficiency

- CoolSkin™ technology leaves the dryer skin cool to the touch
- Fast curing rates and high product throughput maximize dryer capacity and minimize per-unit cost
- Fuzzy-logic controller ensures consistency by keeping heat within 1° of target temperature at the thermocouple
- Heavy-duty thermal insulation prevents heat from migrating into the workplace
- Radicure D is the most energy-efficient dryer in its class
- Suspended insulating system dramatically improves energy efficiency and temperature uniformity (U.S. Patent No. 6,161,304)

Heat Chamber

- Infrared radiant panel array and forced hot air
- Single-point radiant panel height adjustment

Productivity

- State-of-the-art energy-enhancing features give this dryer the highest production capacity in its class

Warranty, Service & Support

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

OPTIONS

Conveyor System

- Conveyor extension sections are available in 30 cm (12") increments
- High-speed conveyor system for specialized graphics and industrial applications

Graphics Model

- Designed for graphic products printed with inks that can be cured by infrared heat

Heat Chamber

- Cooling fan mounted over outfeed
- Fourth radiant panel on the 36/6 model increases productivity

SPECIFICATIONS

	Radicure D 36/6-3	Radicure D 36/6-4	Radicure D 36/10	Radicure D 48/10	Radicure D 60/10
Belt Width	91 cm (36")	91 cm (36")	91 cm (36")	122 cm (48")	152 cm (60")
Electrical Requirements ¹	208/230 V, 1 ph, 62/68 A, 50/60 Hz, 12.1 kW 208/230 V, 3 ph, 37/41 A, 50/60 Hz, 12.1 kW 400 V, 3 ph, 24 A, 50/60 Hz, 12.1 kW	208/230 V, 1 ph, 81/89 A, 50/60 Hz, 15.8 kW 208/230 V, 3 ph, 48/53 A, 50/60 Hz, 15.8 kW 400 V, 3 ph, 31 A, 50/60 Hz, 15.8 kW	Not Applicable 208/230 V, 3 ph, 71/78 A, 50/60 Hz, 23.4 kW 400 V, 3 ph, 42 A, 50/60 Hz, 23.4 kW	Not Applicable 208/230 V, 3 ph, 93/103 A, 50/60 Hz, 32 kW 400 V, 3 ph, 54 A, 50/60 Hz, 32 kW	Not Applicable 208/230 V, 3 ph, 112/123 A, 50/60 Hz, 38.8 kW 400 V, 3 ph, 65 A, 50/60 Hz, 38.8 kW
Exhaust Blower System ^{2,3}	10 cm (4"): 14 017 l/min (495 cfm) @ 3 mm (1/8")	10 cm (4"): 14 017 l/min (495 cfm) @ 3 mm (1/8")	30 cm (12"): 68 867 l/min (2432 cfm) @ 6 mm (1/4")	30 cm (12"): 68 867 l/min (2432 cfm) @ 6 mm (1/4")	30 cm (12"): 68 867 l/min (2432 cfm) @ 6 mm (1/4")
Heat Chamber Length	183 cm (72")	183 cm (72")	305 cm (120")	305 cm (120")	305 cm (120")
Overall Length	305 cm (10')	305 cm (10')	610 cm (20')	610 cm (20')	610 cm (20')
Overall Width	127 cm (50")	127 cm (50")	127 cm (50")	158 cm (62")	188 cm (74")
Radiant Panels	3	4	6	6	6
Shipping Weight	817 kg (1800 lb)	817 kg (1800 lb)	1112 kg (2450 lb)	1293 kg (2850 lb)	1497 kg (3300 lb)
Standard Infeed Length	76 cm (30")	76 cm (30")	152 cm (60")	152 cm (60")	152 cm (60")
Standard Outfeed Length	46 cm (18")	46 cm (18")	152 cm (60")	152 cm (60")	152 cm (60")

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.

² Measured at the exhaust discharge port

³ Static pressure