

ECONOMAX™ D



Electric Textile Dryer



FEATURES

- Belt width 61 cm (24")
- Heat chamber length 114 cm (45")
- CoolSkin™ Technology

Easy to own and economical to operate, Economax D is the ultimate affordable, space-saving textile dryer. It's equipped with a 61 cm (24") belt. Not only does it have the highest production capacity in its class, it's also the most energy efficient. Heavy-duty thermal insulation 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.

Economax D cures with twin height-adjustable energy-efficient infrared panels, and can be equipped with a third radiant panel for increased production capacity. A reliable, heavy-duty DC motor powers a heat-resistant, Teflon®-coated fiberglass conveyor belt. Economax 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 operates and displays temperature and belt speed. 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.

Entry and exit openings are adjustable, and large, crowned rollers ensure positive belt tracking. An automatic shutdown sequence keeps the blower and belt running until the chamber has cooled. This rugged, affordable dryer is designed for years of dependable performance. Combined with a manual press and a registration system like M&R's Tri-Loc, Economax D makes a perfect production dryer in small shops or an ideal sampling dryer in mid-size shops.

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STANDARD FEATURES

Air Handling

- Adjustable air displacement and evacuation systems
- Exhaust blower evacuates up to 3964 l/min (140 cfm)

Certification

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

Control Center

- After the dryer has been turned off, the blowers and belt will continue to run until the heat chamber has cooled
- Digital keypad with digital display
- 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

Conveyor System

- Conveyor belt is made of heat-resistant, Teflon®-coated fiberglass
- Driven by a reliable, heavy-duty, variable-speed DC motor
- Large anodized aluminum rollers are crowned for positive belt tracking

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
- On its side with legs folded, Economax D can fit through a 78 cm (31") doorway

Energy Efficiency

- CoolSkin™ technology leaves the dryer skin cool to the touch
- Economax D is the most energy-efficient dryer in its class
- 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
- Process temperature and set temperature are displayed and controlled digitally

Heat Chamber

- Infrared radiant panel array
- Radiant panels are height adjustable

Productivity

- Economax D has higher production capacity than any dryer in its class

Warranty, Service and 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

Design & Construction

- Short legs are available for tabletop use

Heat Chamber

- Third radiant panel increases productivity

SPECIFICATIONS

	Economax D-2	Economax D-3
Belt Width	61 cm (24")	61 cm (24")
Electrical Requirements ¹	208/230 V, 1 ph, 26/28 A, 50/60 Hz, 4.7 kW 208/230 V, 3 ph, 16/17 A, 50/60 Hz, 4.7 kW 400 V, 3 ph, 11 A, 50 Hz, 4.7 kW	208/230 V, 3 ph, 23/25 A, 50/60 Hz, 7.5 kW 400 V, 3 ph, 15 A, 50 Hz, 7.5 kW
Exhaust Blower System ^{2,3}	10 cm (4"): 3964 l/min (140 cfm) @ 3 mm (1/8")	10 cm (4"): 3964 l/min (140 cfm) @ 3 mm (1/8")
Heat Chamber Length	114 cm (45")	114 cm (45")
Overall Length	239 cm (94")	239 cm (94")
Overall Width	84 cm (33")	84 cm (33")
Radiant Panels	2	3
Shipping Weight	218 kg (480 lb)	227 kg (500 lb)
Standard Infeed Length	76 cm (30")	76 cm (30")
Standard Outfeed Length	48 cm (19")	48 cm (19")

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