

ECONOMAX™ D



Electric Screen Printing Conveyor Dryer



FEATURES

- Belt width 61 cm (24") & heat chamber length 114 cm (45")
- Patriot Belt™ with the SureTrak™ Roller System
- CoolSkin™ Technology leaves the dryer skin cool to the touch

Easy to own and economical to operate, Economax D is the ultimate affordable, space-saving infrared electric screen printing conveyor dryer. Not only does it have the highest production capacity in its class of conveyor dryers, it's also the most energy efficient. Entry and exit openings are adjustable, and 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 conveyor dryer capacity and minimize per-unit cost.

Economax D cures with twin height-adjustable energy-efficient infrared panels, and it can be equipped with a third radiant panel for increased dryer production capacity. Economax D's Proportional Integral Differential (PID) control allows the conveyor dryer to power up gradually to avoid maximum amperage loads during initial warmup. PID control 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 conveyor belt speed. Process temperatures and set temperatures are controlled digitally. PID control responds to ambient temperature changes by keeping the conveyor dryer chamber heat within 1° of target temperature at the thermocouple.

Economax D's reliable, heavy-duty, variable-speed DC motor powers M&R's 61 cm (24") Teflon-coated fiberglass Patriot Belt™ with the SureTrak™ roller system. The red silicone guide stitched along one edge of the Patriot Belt™ rides in grooves machined into the large anodized aluminum SureTrak™ rollers, keeping the belt where it belongs. It's the most precise dryer belt tracking available (U.S. Patent Pending). An automatic shutdown sequence keeps the dryer's blower and belt running until the conveyor dryer 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 is a perfect electric screen printing conveyor dryer for small and startup screen printing shops and an ideal sampling dryer in midsize screen printing shops.

www.mrprint.com
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ECONOMAX™ D

STANDARD FEATURES

AIR HANDLING

- Adjustable air displacement and evacuation systems

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 conveyor dryer chamber has cooled
- Digital keypad with digital display
- PID control allows the conveyor dryer to power up gradually to avoid maximum amperage loads during initial warmup
- PID control helps maintain even temperatures during screen printing production runs by phasing on and off rather than using the full-load/no-load approach

CONVEYOR SYSTEM

- Driven by a reliable, heavy-duty, variable-speed DC motor
- The Patriot Belt™ is made of heat-resistant, Teflon®-coated fiberglass
- The red silicone guide stitched along one edge of the Patriot Belt™ rides in grooves machined into the large anodized aluminum SureTrak™ Rollers, providing the most precise belt tracking available (U.S. Patent Pending)

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

ENERGY EFFICIENCY

- CoolSkin™ technology leaves the conveyor dryer skin cool to the touch
- Economax D is the most energy-efficient electric screen printing conveyor dryer in its class
- Fast curing rates and high product throughput maximize conveyor dryer capacity and minimize per-unit cost
- Heavy-duty thermal insulation prevents heat from migrating from the conveyor dryer into the workplace
- PID control ensures consistency by keeping dryer chamber heat within 1° of target temperature at the thermocouple
- Process temperature and set temperature are displayed and controlled digitally

HEAT CHAMBER

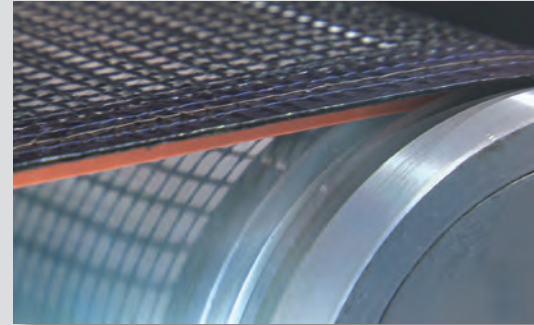
- Infrared radiant panel array
- Radiant panels are height adjustable

PRODUCTIVITY

- Economax D has the highest production capacity of any electric screen printing conveyor dryer in its class

WARRANTY, SERVICE AND SUPPORT

- 24-hour hotline is staffed 365 days a year
- Access to M&R's Training Center
- Parts & supplies are available online at store.mrprint.com
- Two-year limited warranty



PATRIOT BELT™ CONVEYOR SYSTEM

OPTIONS

CONVEYOR SYSTEM

- Conveyor dryer infeed can be extended by 60 cm (24")

DESIGN & CONSTRUCTION

- Short legs are available for tabletop use

HEAT CHAMBER

- Third radiant panel increases electric conveyor dryer 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, 5 kW 208/230 V, 3 ph, 15/17 A, 50/60 Hz, 5 kW 380/415 V, 3 ph, 8/10 A, 50 Hz, 5 kW | 208/230 V, 1 ph, 39/41 A, 50/60 Hz, 7.5 kW 208/230 V, 3 ph, 23/25 A, 50/60 Hz, 7.5 kW 380/415 V, 3 ph, 12/14 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



The M&R Companies
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