

SPRINT[®] 2000 HO



Textile Gas Dryer

FEATURES

- Belt width
122 cm to 213 cm
(48" to 84")
- Heat chamber length
244 to 610 cm
(8' to 20') or more
- CoolSkin™ technology



With unrivaled power and performance, Sprint 2000 HO can keep pace in the most demanding production environments. It's available in belt widths from 122 to 213 cm (48" to 84"). 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.

Available in liquid propane (LP) or Natural Gas (NG), the high-performance burners are designed with excess capacity that far exceeds consumption rates under normal operating conditions. Separate blowers control combustion, circulation, and exhaust. A high-volume forced air system quickly brings the chamber to the desired temperature, speeding the start of production. 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. When readings fall outside those settings, a temperature monitor issues visible and audible alarms. Entry and exit openings are adjustable, and large, crowned rollers ensure positive belt tracking. Digital speed readout makes it easy to duplicate settings. An automatic shutdown sequence keeps the blower and belt running until the chamber has cooled.

All equipment from The M&R Companies is built with M&R's unsurpassed attention to detail and commitment to quality, durability, innovation, and design excellence, and is backed by M&R's unparalleled 24-hour access to service, support, and premium parts. It's no wonder M&R is the first name in screen printing equipment.

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USA: 800-736-6431 • Outside USA: +847-967-4461

SPRINT® 2000 HO

STANDARD FEATURES

Air Handling

- AC variable-speed circulation blower
- Enhanced airflow accelerates drying/curing
- Exhaust blower evacuates up to 62 297 l/min (2200 cfm)
- High-volume circulation blower reduces energy costs
- Stainless steel filter slides out for easy cleaning
- Three separate dedicated blowers (combustion, circulation & exhaust)

Certification

- CE & UL compliant: Built to specifications established by the European Committee for Standardization® (CE) and Underwriters Laboratories® (UL)
- CSA Certified and built to meet or exceed AGA & CGA standards

Control Center

- Automatic shutdown sequence keeps the blower and belt running until the chamber has cooled
- Control panel rotates for visibility and access
- Digital keypad with digital display
- Temperature monitor issues visible and audible alarms when readings fall outside user-specified parameters
- Tower light indicates when temperatures are within user-set tolerances
- Heat efficiency system reduces operating expenses by using outgoing combustion gas to heat incoming air

Conveyor System

- Available with conveyor speeds faster than the standard rates listed
- Conveyor belt is made of heat-resistant, Teflon®-coated fiberglass
- Digital belt speed readout makes it easy to duplicate speed settings
- Driven by a reliable, heavy-duty, variable-speed DC motor
- Large anodized aluminum rollers are crowned for positive belt tracking
- Minimum belt speed: 91 cm (36") per minute

Design & Construction

- Adjustable entry/exit openings
- Bearings are designed for high speeds and high temperatures
- Circuit breakers allow easy reset
- Exhaust Drawer/Creosote Catcher
- Low-profile design makes it easier to see over the dryer
- Modular design and specialized fasteners make it easy to attach additional heat chamber units
- Air-cooled cabinet ensures long life for electrical components

Energy Efficiency

- Burners are designed with excess capacity that far exceeds consumption rates under normal operating conditions
- 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
- Pressurized vector air knives provide consistent and uniform temperatures throughout the drying chamber
- Process temperature and set temperature are displayed and controlled digitally
- Sprint 2000 HO is the most energy-efficient dryer in its class

Heat Chamber

- Burners are available for liquid propane (LP) or natural gas (NG)
- Direct-fired burner is maximum-rated at 390 000 BTU
- Double-wall construction
- Modular gas train simplifies maintenance
- Galvanized steel interior

Productivity

- Sprint 2000 HO has the highest production capacity 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 122 cm (48") increments
- High-speed conveyor system for specialized graphics and industrial applications
- Split-belt model with independent drives features reversible direction and variable speed—available on models with belt widths of 152 cm (60") or more

Heat Chamber

- 61 cm (24") infrared pre-heat module speeds throughput
- Additional 61 cm (24") sections are available
- Cooling fan mounted over outfeed

SPECIFICATIONS

	Sprint 2000 HO-48	Sprint 2000 HO-60	Sprint 2000 HO-72	Sprint 2000 HO-84
Belt Width	122 cm (48")	152 cm (60")	183 cm (72")	213 cm (84")
Burner Input Maximum ⁴	390 000 Btu	390 000 Btu	390 000 Btu	390 000 Btu
Burner Width	217 cm (85.5")	248 cm (97.5")	278 cm (109.5")	309 cm (121.5")
Electrical Requirements ¹	208/230V, 3 ph, 25/24 A, 50/60 Hz, 5.9 kW 400V, 3 ph, 17 A, 50 Hz, 5.9 kW	208/230V, 3 ph, 25/24 A, 50/60 Hz, 5.9 kW 400V, 3 ph, 17 A, 50 Hz, 5.9 kW	208/230V, 3 ph, 34/33 A, 50/60 Hz, 7.8 kW 400V, 3 ph, 20 A, 50 Hz, 7.8 kW	208/230V, 3 ph, 34/33 A, 50/60 Hz, 7.8 kW 400V, 3 ph, 20 A, 50 Hz, 7.8 kW
Exhaust Blower System ^{2,3}	30 cm (12"): 62 297 l/min (2200 cfm) @ 6 mm (1/4")	30 cm (12"): 62 297 l/min (2200 cfm) @ 6 mm (1/4")	30 cm (12"): 62 297 l/min (2200 cfm) @ 6 mm (1/4")	30 cm (12"): 62 297 l/min (2200 cfm) @ 6 mm (1/4")
Expansion Heat Modules	61 cm (24")	61 cm (24")	61 cm (24")	61 cm (24")
Gas Input Size	2.54 cm (1")	2.54 cm (1")	2.54 cm (1")	2.54 cm (1")
Heat Chamber Length	244 to 610 cm (8' to 20') or more	244 to 610 cm (8' to 20') or more	244 to 610 cm (8' to 20') or more	244 to 610 cm (8' to 20') or more
Heat Chamber Width	160 cm (63")	191 cm (75")	221 cm (87")	251 cm (99")
LP/Natural Gas Input Pressure	.93 mm Hg (5" w.c.)	.93 mm Hg (5" w.c.)	.93 mm Hg (5" w.c.)	.93 mm Hg (5" w.c.)
Overall Length	853 to 1097 cm (28' to 36') or more	853 to 1097 cm (28' to 36') or more	853 to 1097 cm (28' to 36') or more	853 to 1097 cm (28' to 36') or more
Shipping Weight ⁵	1678 kg (3700 lb)	1860 kg (4100 lb)	2177 kg (4800 lb)	2404 kg (5300 lb)
Standard Infeed/Outfeed Length	244 cm (96")	244 cm (96")	244 cm (96")	244 cm (96")
61 cm (24") Optional Radiant Section ¹	208/230 V, 3 ph, 15/17 A, 50/60 Hz, 5 kW 400 V, 3 ph, 9 A, 50 Hz, 5 kW	208/230 V, 3 ph, 19/21 A, 50/60 Hz, 6.2 kW 400 V, 3 ph, 11 A, 50 Hz, 6.2 kW	208/230 V, 3 ph, 21/23 A, 50/60 Hz, 7.4 kW 400 V, 3 ph, 13 A, 50 Hz, 7.4 kW	208/230 V, 3 ph, 25/27 A, 50/60 Hz, 8.5 kW 400 V, 3 ph, 14 A, 50 Hz, 8.5 kW

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

⁴ Normal usage varies, but is significantly lower than the stated maximum

⁵ Weight applies to models with a 244 cm (96") heat/expansion chamber



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M&R Sales and Service, Inc. 1 N. 372 Main Street, Glen Ellyn, Illinois 60137-3576 USA

USA: 800-736-6431 / 630-858-6101 / Fax: 630-858-6134 • Outside USA: +847-967-4461 / Fax: +847-967-0417

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