



Sprint 2000™

Textile Gas Dryer

Eng



Model shown has 4' (1.22 m) belt, 8' (2.44 m) heat chamber, 8' (2.44 m) infeed, and 4' (1.22 m) outfeed.

Sprint 2000

Sprint 2000 Modular Gas Dryer is the next generation in the venerable Sprint line and the last word in efficient, innovative, affordable modular textile gas dryers. Sprint 2000 was designed to provide the power and performance necessary to keep pace in high-production environments. Available in LP or natural gas, Sprint 2000 combines a high performance burner with three dedicated blowers to deliver remarkable temperature consistency and exceptional curing rates. The circulation blower forces heated air through the vector knife air plenum and across the belt, the power blower provides independent combustion air for the direct-fired burner, and the exhaust blower evacuates up to 1800 scfm. The resulting flame promotes fast, even, and efficient curing. Sprint 2000's unitized forced air system quickly brings the heat chamber up to the desired temperature, and its unique double-wall construction and heavy-duty industrial insulation layer increases dryer efficiency, while simultaneously reducing outer skin temperature.

The combined result of Sprint 2000's heat source, blowers, and insulated chamber is uniform temperatures throughout the chamber and across the belt. Sprint 2000's high-visibility tower light confirms that temperatures are within user-set parameters. Temperature readings outside those parameters will result in visible and audible alarms, while any anomaly in the control system will result in an audible alarm and automatic shutdown. Sprint 2000's solid-state control center features a fuzzy logic microprocessor in a rotating control panel atop the dryer for easy operator access. For convenience, M&R includes System-Saver, which allows blowers and belt to continue to run in cooldown mode after burner shutdown, then shut off automatically upon reaching the cooldown target temperature.

Sprint 2000 is available in three widths. Single-burner models come in five standard heat chamber lengths. Four-foot (122 cm) conveyor extension sections and two-foot (61 cm) expansion heat chamber sections are also available. Sprint 2000's optional AC frequency-controlled variable-speed motor on the circulation blower allows operators to tailor airflow velocity to specialized applications. The ability to configure Sprint 2000 so many ways makes it tops in flexibility and the perfect textile dryer for any size operation. Sprint 2000 is also easy to operate and simple to maintain. Filters are easy to reach and clean, and lubrication points are conveniently located. Sprint 2000 is designed and built with M&R's commitment to quality, durability, and design excellence, and backed by M&R's unsurpassed service and support.

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Textile Gas Dryer



Standard Features

Air Handling

- Airflow is enhanced to accelerate drying/curing
- Circuit breaker design allows easy reset and eliminates cartridge-type fuses
- Exhaust blower: approximately 1800 SCFM
- High volume circulation blower recirculates up to 80% of heated air
- Stainless steel filter slides out for easy cleaning
- Three separate dedicated blowers (combustion, circulation & exhaust)

Certification

- AGA® & CGA® approved (design certified by the American and Canadian Gas Associations to meet or exceed national safety standards for design and performance)
- Gas controls meet standards set by Factory Mutual® and by the National Fire Protection Association® (NFPA)
- Panel meets Underwriters Laboratories® (UL) standards and carries the UL label

Control Center

- Air-cooled cabinet assures long life for electrical components
- Control panel rotates for easy access
- Fuzzy-Logic temperature controller program learns to modulate dryer process temperature more accurately as the dryer runs, ensuring the ultimate in curing consistency
- Process temperature and set temperature are displayed and controlled digitally
- Solid-state design
- System-Saver allows blowers and belt to continue to run in cooldown mode after heat source shutdown, then shut off automatically upon reaching the cooldown target temperature
- Temperature monitor issues visual and audible alarms for readings outside user-specified parameters
- Temperature status tower light—visible to operators around the entire dryer perimeter—indicates temperatures are within user-set tolerances

Conveyor Belt width

- 48" (122 cm), 60" (152 cm), and 72" (183 cm)

Conveyor System

- Conveyor belt is made of heat-resistant, Teflon®-coated fiberglass
- Driven by a reliable, heavy-duty, variable-speed DC motor
- Large diameter crowned aluminum conveyor rollers promote positive belt tracking
- Minimum belt speed: 3' (91 cm) per minute
- Solid-state belt speed controller with digital belt speed readout makes it easy to duplicate speed settings

Design & Construction

- Adjustable entry/exit openings
- Assembled and tested at M&R's factory to assure turnkey operation
- Bearings are designed for high speeds and high temperatures
- Constructed of rigid steel and premium components
- Designed for maximum thermal efficiency
- Low-profile design
- Modular design simplifies future expansion
- Specialized joining fasteners simplify the connection of additional heat chamber units

Exhaust Drawer/Creosote Catcher

Heat Chamber

- Burners are available in a choice of liquid propane (LP) or natural gas (NG)
- Direct-fired burner is maximum-rated at 300,000 BTU
- Double-wall construction
- Galvanized steel interior
- Heavy-duty thermal insulation
- Interior air distribution system assures uniformity and consistency of temperature
- Modular gas train simplifies maintenance
- Pressurized vector air knives provide uniform temperatures throughout the drying chamber

Service

- 24-hour hotline

Training

- Access to M&R's Training Center

Warranty

- Two-year limited

Options & Accessories

Air Handling

- AC frequency-controlled variable-speed motor on circulation blower

Certification

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

Conveyor Belt Width

- Custom sizes available: Quoted upon request

Conveyor System

- Conveyor extension sections are available in 4' (122 cm) increments
- High-speed conveyor drive system for versatility when used with graphics and industrial applications
- Split-belt model with independent drives features reversible direction and variable speed—available on models with belt widths of 60" (152 cm) or more

Cooling Fan

- Cools garments, making them easier to handle as they exit the heat chamber
- Mounts over outfeed

Electric

- Available in single phase
- Other electrical configurations are available

Heat Chamber

- Additional 2' (61 cm) expansion modules available

Infrared Radiant Heat Section

- Independent 2' (61 cm) module preheats inks for faster throughput

SPECIFICATIONS

Sprint Model	Belt Width	Heat Chamber Length	Expansion Heat Modules	Standard Infeed Length	Standard Outfeed Length	Electrical Requirements*	Exhaust Blower System**	Gas Input Size	Nominal Gas Input Pressure	Burner Input Maximum BTU***	Optional 2' (61 cm) Radiant Section*	Shipping Weight****
2000-48	48" (122 cm)	12' to 20' (244-610 cm) or more	2' (61cm)	8' (244 cm)	8' (244 cm)	208/230v, 3 phase 18/16 amps, 60 Hz	12" (30 cm) Dia. 1800 scfm @ 1/4" (6 mm) s.p.	1" (2.54 cm)	5" w.c. (.93 mm Hg)	300,000	208/230v, 3 phase 15/17 amps, 60 Hz	3700 lbs (1678 kg)
2000-60	60" (152 cm)	12' to 20' (244-610 cm) or more	2' (61cm)	8' (244 cm)	8' (244 cm)	208/230v, 3 phase 22/20 amps, 60 Hz	12" (30 cm) Dia. 1800 scfm @ 1/4" (6 mm) s.p.	1" (2.54 cm)	5" w.c. (.93 mm Hg)	300,000	208/230v, 3 phase 19/21 amps, 60 Hz	4100 lbs (1860 kg)
2000-72	72" (183 cm)	12' to 20' (244-610 cm) or more	2' (61cm)	8' (244 cm)	8' (244 cm)	208/230v, 3 phase 24/22 amps, 60 Hz	12" (30 cm) Dia. 1800 scfm @ 1/4" (6 mm) s.p.	1" (2.54 cm)	5" w.c. (.93 mm Hg)	300,000	208/230v, 3 phase 21/23 amps, 60 Hz	4800 lbs (2177 kg)

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

** Measured at the Exhaust Discharge Port

*** Nominal usage varies, but is considerably lower than the stated maximum

**** Weight applies to models with an 8' (244 cm) heat/expansion chamber

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