



Sprint 2000 HO

Textile Gas Dryer

Eng



Sprint® 2000 HO

Sprint 2000 HO is for the printing professional who needs an affordable and economical gas dryer capable of meeting extremely high production volumes. Sprint 2000 HO provides the power and performance to keep pace in the most demanding production environments. Available in LP or natural gas, Sprint 2000 HO combines a high-performance burner with three dedicated blowers to deliver remarkable temperature consistency and exceptional curing rates. The high-output 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 2200 SCFM. The resulting flame promotes fast, even, efficient curing. Sprint 2000 HO's unitized forced air system quickly brings the heat chamber up to the desired temperature. Sprint 2000 HO maintains dryer temperature without regard to dryer loading, and its unique industrial insulation layer keeps more heat in the chamber for consistent temperatures and cost-effective operation.

The combined result of Sprint 2000 HO's heat source, blowers, and insulation layer is uniform temperatures throughout the chamber. Sprint 2000 HO'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 HO's solid-state control center features a fuzzy-logic microprocessor and a rotating control panel atop the dryer for easy operator access. M&R also 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 HO is available in four 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. The ability to configure Sprint 2000 HO so many ways makes it tops in flexibility and the perfect textile dryer for any high-production operation. Sprint 2000 HO is also easy to operate and simple to maintain. Filters are easy to reach and clean, and lubrication points are conveniently located. Sprint 2000 HO is designed and built with M&R's commitment to quality, durability, and design excellence, and is backed by M&R's unsurpassed service and support.

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Standard Features

Air Handling

- AC frequency-controlled variable-speed motor on circulation blower
- Circuit breaker design allows easy reset and eliminates cartridge-type fuses
- Enhanced airflow accelerates drying/curing and increases water-based capability
- Exhaust blower evacuates up to 2200 cfm
- High-volume circulation blower recirculates up to 80% of heated air
- The 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 ensures long life for electrical components
- Control panel rotates for easy access and visibility
- 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), 72" (183 cm), and 84" (213 cm)

Conveyor System

- 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 diameter crowned aluminum conveyor rollers promote positive belt tracking
- Minimum belt speed: 3' (91 cm) per minute
- Solid-state belt speed controller

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 expansion heat modules

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 390,000 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

Options & Accessories

Certification

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

Conveyor Belt Width

- Custom sizes available: Contact M&R for details

Conveyor System

- Conveyor extension sections are available in 4' (122 cm) increments
- High-speed conveyor drive system provides versatility in specialized 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

- Mounts over outfeed to aid in cooling garments as they exit the heat chamber

Electrical Configurations

- Available in single phase
- Other electrical configurations are available: Contact M&R for details

Heat Chamber

- Additional 2' (61 cm) expansion modules are available

Infrared Radiant Heat Section

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

Training

- Access to M&R's Training Center

Warranty

- Two-year limited

SPECIFICATIONS

Sprint 2000 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****
HO-48	48" (122 cm)	12' to 20' (244-610 cm) or more	2' (61 cm)	8' (244 cm)	8' (244 cm)	208/230v, 3 phase 22/20 amps, 60 Hz	12" (30 cm) Dia. 2200 scfm @ 1/4" (6 mm) s.p.	1" (2.54 cm)	5" w.c. (.93 mm Hg)	390,000	208/230v, 3 phase 25/24 amps, 60 Hz	3700 lbs (1678 kg)
HO-60	60" (152 cm)	12' to 20' (244-610 cm) or more	2' (61 cm)	8' (244 cm)	8' (244 cm)	208/230v, 3 phase 24/22 amps, 60 Hz	12" (30 cm) Dia. 2200 scfm @ 1/4" (6 mm) s.p.	1" (2.54 cm)	5" w.c. (.93 mm Hg)	390,000	208/230v, 3 phase 25/24 amps, 60 Hz	4100 lbs (1860 kg)
HO-72	72" (183 cm)	12' to 20' (244-610 cm) or more	2' (61 cm)	8' (244 cm)	8' (244 cm)	208/230v, 3 phase 28/26 amps, 60 Hz	12" (30 cm) Dia. 2200 scfm @ 1/4" (6 mm) s.p.	1" (2.54 cm)	5" w.c. (.93 mm Hg)	390,000	208/230v, 3 phase 31/30 amps, 60 Hz	4800 lbs (2177 kg)
HO-84	84" (213 cm)	12' to 20' (244-610 cm) or more	2' (61 cm)	8' (244 cm)	8' (244 cm)	208/230v, 3 phase 30/28 amps, 60 Hz	12" (30 cm) Dia. 2200 scfm @ 1/4" (6 mm) s.p.	1" (2.54 cm)	5" w.c. (.93 mm Hg)	390,000	208/230v, 3 phase 31/30 amps, 60 Hz	5300 lbs (2404 kg)

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

** Measured at the Exhaust Discharge Port

*** Normal 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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