

Gas Textile Dryer



FEATURES

- Belt width: 91 cm (36")
- Heat chamber length: 259 cm (8' 6")
- CoolSkin™ technology

Easy to own and economical to operate, HeatWave is M&R's most affordable gas textile dryer, bridging the gap between M&R's infrared dryers and the Sprint line of high-performance gas dryers. With superior design and unrivaled quality, HeatWave offers exceptional performance in a compact gas dryer. HeatWave features M&R's high-efficiency gas-dryer technology, 91 cm (36") belt width, 259 cm (8' 6") heat chamber length, and a new control panel that uses icons instead of text to control dryer operation.

Not only does HeatWave 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) versions, HeatWave utilizes an exceptionally

efficient high-performance burner with ample capacity. Separate blowers control circulation and exhaust, and 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 $\pm 1^\circ$ of target temperature at the thermocouple.

When readings fall outside those settings, a temperature monitor issues an audible alarm. Entry and exit openings are adjustable, and crowned rollers ensure positive belt tracking. An automatic shutdown sequence keeps the blower and belt running until the chamber has cooled. Aggressively priced and impressively designed, HeatWave is a perfect choice for small to mid-size shops.

HEATWAVE™ R SERIES

STANDARD FEATURES

Air Handling

- Enhanced airflow accelerates drying/curing
- Heat efficiency system reduces operating expenses by using outgoing combustion gas to heat incoming air
- High-volume circulation blower reduces energy costs
- Stainless steel filter slides out for easy cleaning
- Two separate dedicated blowers (circulation and exhaust)

Certification

- CE & UL compliant: Sub panel 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
- Temperature monitor issues audible alarm when readings fall outside user-specified parameters

Conveyor System

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

Design & Construction

- Adjustable entry/exit openings
- Air-cooled cabinet ensures long life for electrical components
- Bearings are designed for high speeds and high temperatures
- Circuit breakers allow easy reset
- Low-profile design makes it easier to see over the dryer

Energy Efficiency

- Burner designed with excess capacity that 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
- HeatWave is the most energy-efficient dryer in its class
- 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

Heat Chamber

- Burner is available for liquid propane (LP) or natural gas (NG)
- Direct-fired burner is maximum-rated at 125 000 Btu
- Double-wall construction
- Galvanized steel interior
- Modular gas train simplifies maintenance

Productivity

- HeatWave 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
- One-year limited warranty
- Parts & supplies are available online at store.mrprint.com

OPTIONS

Conveyor System

- Conveyor extension sections are available in 30 cm (12") increments up to 183 cm (72")

Electrical Specifications

- 208/230 V, 1 phase

Warranty, Service and Support

- Additional one-year limited warranty

SPECIFICATIONS

HeatWave 36	
Belt Width	91 cm (36")
Burner Input Maximum ⁴	105 000 Btu
Electrical Requirements ¹	110 V, 1 ph, 14 A, 60 Hz, 1 kW
Exhaust Blower System ^{2,3}	10.2 cm (4"): 9910 l/min (350 cfm) @ 6 mm (1/4")
Gas Input Size	1.9 cm (.75")
Heat Chamber Length	259 cm (8' 6")
Heat Chamber Width	137 cm (54")
LP/Natural Gas Input Pressure	.93 mm Hg (5" w.c.)
Overall Length	488 cm (16' 4")
Shipping Weight	816 kg (1800 lb)
Standard Infeed/Outfeed Length	122 cm (48")

¹ If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly.

Other electrical configurations are available. Contact M&R for details

² Measured at the Exhaust Discharge Port

³ Static pressure

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



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