# TEMPEST® *Hot Air Drying System*


*The Tempest ® Hot Air Drying System* uses the advanced technology of pre-set PTC thermisters in combination with high velocity fans, microprocessor-controlled with a soft touch keypad to accelerate the drying process. Thermistors are self-regulating semiconductors that maintain a constant temperature without the need of a thermostat. This innovative approach to drying eliminates the risk of fire because the thermistors approach, *but never reach,* the ignition temperature of paper.

PAMARCO Global Graphics

171 E. Marquardt Drive • Wheeling, Il 60090 • Phone: 847.459.6000 • www.pamarcoglobal.com

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The objective of any drying system is to raise the temperature of the pile to accelerate the natural drying process of the ink. Too much heat can aggravate blocking, set-off, loss of gloss, loss of halftone definition, and can cause paper to shrink, causing registration problems in multiple pass work. The Tempest® Hot Air Dryer keeps the temperature of the pile at a constant to accelerate the drying process without the negative effects of excess heat.

The technology behind the Tempest Hot Air Dryer has been in use for many years. Heat is generated by electricity traveling through a thermistor. The thermister acts as a conductor until it reaches its set temperature and then it becomes a resistor. A thermistor is basically a coated semiconductor designed to switch from a conductor to a resistor at a set temperature.


*Tempest was awarded the prestigious GATF Intertech Award in 1991.*

When current is applied to the thermistor it heats up very quickly until it reaches its maximum set temperature. Air passing through the holes in the thermistor causes it to cool. The cooling causes the thermistor to reheat to its pre-set temperature. This process is called autostabiliazation. The air passing through the thermistors is heated, which raises the stack temperature of the pile. This process generates a substantial increase in air circulation to the sheet, which accelerates the drying process without excessive heat.

Because the set temperature of the thermistor is lower than the flash point of paper, the most easily burned substrate such as tissue paper, can be placed on top of the thermistor element without causing a fire.

- Faster turn around – additional passes through the press can be made in significantly less time with fewer worries about set-off or blocking
- Dramatically reduced powder use, resulting in less powder build on multiple pass work and higher print quality
- Increased productivity – jobs can be folded, cut, bound, collated and delivered sooner.

**Available for:**
A.B.Dick 9985, 9995

Hamada C248, C252, H234, H234 A

Heidelberg Quickmaster 46 (1 & 2 color)

Itek 960, 975, 985, 3985

Ryobi 2800, 3200, 3302 MCD, 3304 H, 512, 522 (Not the 522PF), 524, 524 HX

Tempest is covered by a money back guarantee and Pamarco's outstanding warranty of one (1) year. Tempest is supported nationwide by an extensive dealer network and Pamarco's own technical sales representatives.

Product specifications and model availability subject to change without notice.

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