

MEGAIR Compact / Book Hot Air Dryer



*Two-Zone hot air flotation dryer
for Low-mid speed Commercial, Newspaper, Directory and book
printing*



MEGTEC developed two dryers from the highly successful MEGAIR in order to meet printers' specific requirements. Their High Floatäair bars offer high heat and mass transfer for superior drying whilst offering excellent web stability. Their design in combination with MEGTEC's unique web temperature control system ensures optimal drying at low paper temperatures. The MEGAIR Compact has the same operating performance than its ancestor but is simpler and has fewer components. It is the ideal machine for heatset printing on newspaper presses and directory printing. The MEGAIR Book is especially adapted for book printing which requires experience, a high degree of process knowledge and quality regarding paper moisture and fluting.

The bottom line is process knowledge

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Low running costs:

- High efficiency air nozzles decrease gas and electrical consumption.
- A single burner with fast heat-up from cold start and rapid re-start.
- Air recirculation into the combustion chamber where some solvent is oxidised to produce energy.
- Digital exhaust control to automatically regulate energy consumption to printing speed.
- An excellent cross flow allows maximum blanket wash solvent input to reduce washing time and paper waste.
- Zone supply fan motors with frequency drive for supply air volume variation for enhanced control of light paper stock and energy minimisation.

Reliability & low maintenance

The long life construction features a minimum number of parts, a single burner and proven components. Easy component accessibility reduces maintenance time and service costs.

Easy to use

Simple controls with a console display of complete equipment status.

Temperature control

The unique MEGTEC automatic paper temperature control is fitted as standard. This features an internal pyrometer linked to the PLC that adjusts the zonal temperature profiles for all printing conditions (paper weight, press speed, dampening). This easy to use system eliminates operator error, ensures consistent print quality, reduce paper waste and energy consumption.

Functional description

A single burner is located at the dryer entry. Hot air from the combustion chamber is ducted to the high efficiency High Float™ air bars which transfer heat to the web. Some recirculated air is used to provide partial incineration and decrease temperature in the combustion chamber. The main outlet of the chamber is through the recirculating inlet of zone 1, with a secondary outlet to zone 2 during pre-heating. The air temperature is adjusted to press speed.

Ink solvent evaporation is quickly initiated in zone 1 by a rapid rise in temperature. Evaporation is completed in zone 2, where the digital exhaust is located at the highest concentration point. The paper temperature is reduced as the web leaves zone 2.

Blanket washing under normal conditions does not need any additional safety devices.

Performance parameters

- Maximum nominal ink coverage < 2.4 gsm (= both sides) for the MEGAIR Book and ≤ 3,5 gsm (both sides) for the MEGAIR Compact
- Maximum paper weight ≤ 200 gsm
- The length of the dryer is determined by the maximum printing speed for a selected maximum ink coverage and paper weight.
- Zone lengths are dimensioned to obtain optimum paper temperature under maximum operating conditions.

Technical specifications	MEGAIR Compact
Maximum web speed	<10m/s
Maximum paper web width	1000, 1372 mm
Configurations	Horizontal. Single or double web
Web direction	Left-right or Right-left
Smoke tunnel	Standard if more than one printing unit
Fuel burner versions	Natural gas, propane, butane, LPG, fuel oil
Temperature control standard	Air regulation and Automatic paper temperature profile control of all zones Internal pyrometer at the end of zone 1
Electrical power	Europe 400 v/50Hz, US 460 v/60Hz
Norms and safety	Conforms to EC regulations
Doors	Automatic