

COANDA Plus Series of Air Flotation Dryers



*Reliability and Precision to Dry the Quality Signature
for Commercial, Insert, Book and Newspaper Printing*

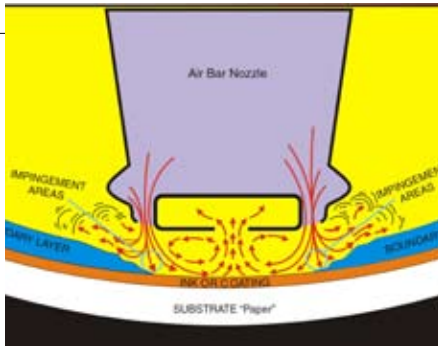


The COANDA Plus Series of dryers from MEGTEC provides excellent air flotation drying performance at an economical price, including a dryer designed for vertical placement. The COANDA Plus dryer is specifically designed for printers with low- and mid-speed commercial, insert and book presses, as well as newspaper printers with a minimum of available space.

The COANDA Plus dryer is the latest evolution of the highly successful COANDA dryer. Printers experience the well-earned reputation of hard-working performance. Its proven effectiveness in today's wide range of paper, press configurations and conditions make the COANDA series of dryers the most trusted, reliable dryer in the industry.

The bottom line is process knowledge

COANDA Plus Series of Air Flotation Dryers



Patented HI-FLOAT® Air Bars



COANDA Plus Dryer



COANDA Plus Dryer for Commercial and Insert Printing

Performance Benefits

- Low operating costs
- Rugged design
- Simple installation
- Energy-saving temperature control system
- Advanced air flow control system
- Electronic troubleshooting system
- Proven performance & reliability
- Easy-to-use, trouble free design
- Low maintenance

The COANDA Plus Series of dryers provides the hardworking performance printers need to keep their competitive edge. All MEGTEC dryers include the advantages obtained from years of experience and innovation in webline technologies. The COANDA Plus design has proven its effectiveness in today's wide range of paper and press conditions.

COANDA Plus Dryer Reliability and Precision for Heatset Printing Applications

The COANDA Plus dryer is designed and adapted for printers with low-mid speed web presses. The COANDA Plus dryer provides excellent air flotation drying performance at an economical price. The COANDA Plus dryer is a basic system, but it offers all the features needed for effective drying, reliable operation and webline productivity, while helping to keep printers at their competitive edge.

HI-FLOAT® Air Bars

Hi-FLOAT® air bars provide stable air flotation and effective drying resulting in consistent print quality and reliability unmatched by any other drying system in their class, all with low energy consumption.

Reliable and Low Maintenance

The COANDA Plus dryer's easy component accessibility reduces maintenance time and service costs. The dryer construction features a minimum number of parts, a single burner (per zone) and industry-proven components.

Low Operating Costs

A single burner (per zone) with fast heat-up from cold start and rapid re-start reduces make-ready waste. This is particularly important in the COANDA dryer for book printing with typical short runs and frequent signature changes. An excellent cross-flow allows maximum blanket wash solvent input to reduce washing time and paper waste.

Easy to Use, Trouble-Free Design

Infiltration seals on both entrance and exit slots reduce room air infiltration to avoid causing condensation inside the dryer. The exit slot also includes a smoke tunnel.

Simple controls with a console display indicate complete equipment status. Web threading systems can be incorporated to reduce make-ready times. During make-ready, automatic web-up doors eliminate time-consuming door operation.

Temperature Control

The standard model is equipped with air and web temperature control. The PLC model features a MEGTEC automatic paper temperature control with a pyrometer linked to the PLC. These controls adjust the temperature profile for all printing conditions (paper weight, press speed and dampening). The easy-to-use system eliminates operator errors, ensures consistent print quality, reduces paper waste and energy consumption.



COANDA Plus Dryer

Troubleshooting Panel (available with relay logic)

The COANDA Plus features an electrical panel that quickly identifies and locates malfunctions during the start-up cycle and continuous operation.

Heavy Duty Construction

The COANDA Plus incorporates a rugged internal frame to ensure correct air bar alignment. The horizontal COANDA Plus frame will support the weight of a second dryer or top-mounted oxidizer.

Pressroom Safety

Pneumatic cylinders maintain positive pressure on doors at all times. Pressure relief is on the dryer's sides, top and bottom, away from pressroom personnel.

"Zero Paper Waste" Interface Feature (available with PLC only)

Operator starts press line on console. The press logic enables the dryer preheat signal. At 2% rated press speed, the dryer preheats the air temperature to a value equal to the air temperature set point. The press then accelerates to the preset print speed. At 10% rated press speed set point, a second signal is given to the dryer to release web temperature control.

Automatic Make-Up Air Control (available with PLC only)

Automatic make-up air control helps maintain constant pressure and more stable air inside the dryer enclosure. Internal return air seals ensure stable, effective operation.



COANDA Plus Dryer, for Book Printing

COANDA Plus Dryer for Book Printing Applications

The printing of books in web offset requires both experience and a high degree of process knowledge. The quality requirements regarding paper moisture and fluting are extremely high, even for one or two color printing. Some paper types require very low drying temperatures. Short runs and frequent signature changes require a quick heat up of the dryer to reduce waste. MEGTEC has put its many years of experience directly into the design of the COANDA Plus dryer, producing a hot air dryer especially for book printing.



Vertical COANDA Plus Dryer for Newspaper and Commercial Printers with space restrictions

Vertical COANDA Plus Dryer for Newspaper and Semi-Commercial Printers with Space Restrictions

MEGTEC offers dryers specifically designed and built for vertical press installations. Working closely with press manufacturers and drawing from many years of experience in air flotation technologies, MEGTEC developed an economical, easy-to-install vertical dryer and chill roll package. The Vertical COANDA Plus dryer is purpose-built for the emerging hybrid newspaper market where printers are incorporating heatset run-of-press products or stand-alone, semi-commercial work.

The standard installation package includes a dryer and chill roll assembly, and a cut-off-specific grater roller at the dryer entrance. The package also includes provisions for up to two cold-set webs to bypass the dryer, factory-supplied exhaust ductwork and combustion blower piping to floor-mounted fans, integrated web guide, silicone coater, full page, motorized compensator, and pre-wired motors and controls to reduce installation time and labor. An optional, non-contact air turn system with automatic clearance control ensures increased product quality with easy handling of webs.

COANDA Plus Series of Air Flotation Dryers

✓ = standard
○ = optional

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Standard Features	Coanda Plus	VerticalCoanda Plus
HI-FLOAT™ COANDA air bars	✓	✓
Vertical, automatic web-up doors	✓	
Hinged web-up doors on some models (for ease in containerization)	○	✓
Programmable logic controller/PLC with Siemens S7	○	○
Relay logic electrical control with digital temperature controls	✓	✓
Troubleshooting panel mounted in electrical cabinet door	✓	✓
Manual make-up air control	✓	✓
Web temperature control system	✓	✓
Exhaust fan and combustion blower on top of the dryer	✓	
Exhaust ductwork from dryer outlet to top-mounted fan	✓	
Combustion blower piping from burner to top-mounted blower	✓	
Exhaust ductwork and combustion blower piping-dryer to floor-mounted fans		✓
Energy savings dampers (2-pass only)	✓	
ODP high efficiency supply fan motors	✓	✓
Prewired motor and controls (electrical cabinet < 15' from dryer gearside)	○	✓
Insulated smoke tunnel	✓	
Access doors for internal maintenance	✓	✓
Basic spare parts kit	✓	✓
Standard dryer web-up platform with two (2) safety gates		✓
50 Hz voltage	○	○
Worldwide safety compliance (UL, CE, Canadian, Australian)	○	○

Technical Specifications for COANDA Plus Dryer

Maximum web speed	up to 2,200 fpm (11 m/s)
Maximum web width	66 inches (1,676 mm)
Motors	ODP
Pressure relief / access	Meets NFPA guidelines

Technical Specifications for Vertical COANDA Plus Dryer

Maximum web speed	up to 2,000 fpm (10 m/s)
Maximum web width	up to 66 inches (1,676 mm)
Dryer control	Relay logic with troubleshooting panel
Motors	ODP
Pressure relief / access	Meets NFPA guidelines

Options for both COANDA and Vertical COANDA Plus

- Web break detection
- TEFC and / or softstart motors
- PLC with touchscreen, zero paperwaste interface and automatic makeup air control