

# Harris & Bruno International's LithoDry™ Infrared Dryer System

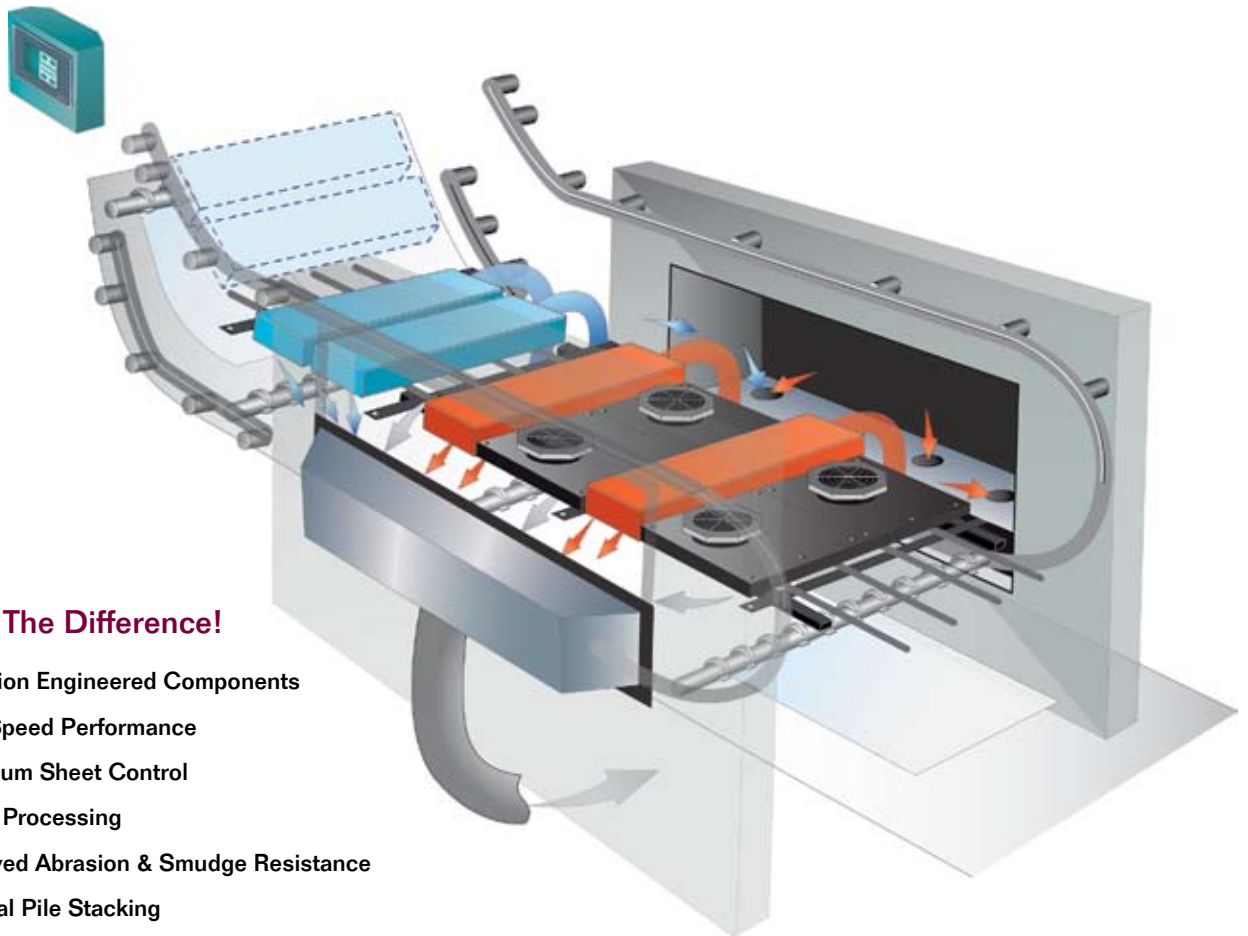


## Innovative Technology

IR Drying technology continues to be challenged with the responsibility of producing high-quality printing in record time. In addition, more and more print jobs are utilizing specialty coatings, difficult inks or synthetic stocks.

At Harris & Bruno International, we understand how paramount these concerns can be and how heavily reliant they are on your IR drying system.

With years of concept planning turned into today's latest technology, comes the Harris & Bruno LithoDry™ Dryer System, a unique short wave infrared drying system. Designed to give today's printer that "competitive edge" needed to meet customer demands and produce the highest quality printing...fast! Drying conventional inks, varnishes, aqueous and specialty coatings has never been so effortless.



## Notice The Difference!

- Precision Engineered Components
- High Speed Performance
- Maximum Sheet Control
- Faster Processing
- Improved Abrasion & Smudge Resistance
- Optimal Pile Stacking
- Reduce Powder Spray
- Enhanced Gloss, Color Brilliance & Shine
- Seamless Installation

# how it works

## UNDERSTANDING THE TECHNOLOGY

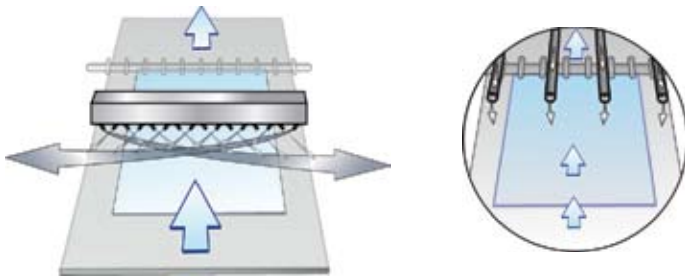
### Precision Engineered Components

As more and more printers see the extraordinary results of the Harris & Bruno LithoDry System, new standards are being set by which other IR dryer systems are being judged. With precision engineering and a high level of detail, the following components were brought together to offer an uncompromising system of components

#### Master Control Unit



- PLC controlled touch screen
- Swing arm video module easily attaches to press
- Visually monitor and control all system components from one location



#### "Engineered Air"

(i.e. hot air knives, ambient air knives & blow down bars)

- Bidirectional air knife design delivers a cross flow of air to the sheet
- Heated air knives enhance evaporation of water based coatings
- Cross air-flow travels in a sweeping motion across the sheet and out to the sides
- This air-flow design reduces both negative pressure above the sheet and turbulence, thus enhancing sheet control
- Air knives are separate and fully adjustable
- Temperatures fully adjustable from ambient air to 160°F

#### Smart Sensoring

- Automated safety features
- High speed, on/off controllability (.8 secs. on/.4 secs.off)
- Reduce risks associated with warm-ups & heat radiation in emergency stops
- Exhaust and air blower motors are thermo protected
- Fan circuits are equipped with thermal overload sensors
- Built-in sheet and impression signaling sensors, ensuring heat is applied only when directed



#### Collection & Evacuation Unit

- Collects heat, excess air, moisture and vapors through extraction and evacuation
- A powerful side exhaust efficiently removes these elements via an evacuation blower
- Benefits include moisture flash-off for faster drying & sealing time, higher gloss and quicker processing
- Exhaust hood (not shown) removes residual moist air and fumes



#### Infrared Lamps, Heat & Reflector Unit

- Infrared quartz lamps are custom fitted to each press
- Lamps are housed with a parabolic reflector that focuses short wave IR light to the sheet surface
- Printed/coated sheets are exposed to an instantaneous radiant energy, resulting in immediate drying of the ink or coating
- Vertically fitted quartz lamps provide over 5,000 hours of usage and can be easily replaced

#### Sound Dampened Component Cabinet

- Enclosure for all electronic components, circuit boards, air-intake filters, heating elements, power supply and variable adjustment controls
- Free-standing, dust protected, and sound dampened cabinet with color match to existing press
- Easy operator access when necessary and only one point of connection for all components

### Seamless Installation

With precision engineering and an attention to detail, our manufacturing process is the underlying key to our installation success. We send our very own, highly trained, and experienced Harris & Bruno Service technicians to your facility to assure a seamless installation process. With service and support available most anywhere in the world, our commitment to your satisfaction is guaranteed. Call us today and learn more about how the Harris & Bruno LithoDry System can start enhancing your bottom line!