

SHORTWAVE INFRARED DRYING SYSTEMS FROM JAC. DE VRIES

# WEB DRYING SYSTEMS



Do you want to extend your printing range and types of jobs? How about improving print and using higher quality stocks without slowing down presses or adding unprofitable clean-up and down time? You can with Web Shortwave IR drying systems from Jac. de Vries.

- Expand your printing capabilities
- Easy installation within current press setup
- Touch-screen and PLC controlled
- Full power within 1 second of startup
- System can pay for itself in less than a year

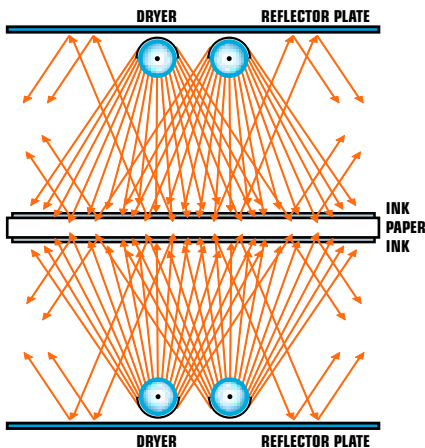
# INFRARED WEB DRYING SYSTEMS

Expand your printing capabilities with a Jac. de Vries Shortwave Infrared Drying System for your non-heatset web press. Your print quality will improve on current stocks and you will be able to add a larger variety and quality of stocks to the press. Greater capability and flexibility will enable you to be more competitive and profitable on all your web jobs.

Get more productivity with a shortwave IR drying system designed specifically for web presses. These dryers are engineered to bring the power of shortwave IR directly to the substrate with unsurpassed control over time and temperature.

## How shortwave IR works

JDV infrared dryers generate shortwave infrared energy. Due to its short wavelength, IR energy passes through air rather than being absorbed by it. As a result, very little energy is lost to the environment. Instead, the energy is absorbed by the web where it will dry and cure the ink, not heat the press or the surrounding air. In fact, you won't need to exhaust any additional heat from the press or even provide heat shielding to protect your machinery. This makes IR dryers very economical to operate.



Shortwave infrared (1200nm) penetrates paper, allowing the radiation to be reflected by the opposite dryer and making it highly efficient.

## Single-side or sandwich

If a single dryer module is used to dry the web, we provide a reflector plate which reflects any energy that might have passed through the web. In case more energy is required we can provide a pair of dryer modules assembled so that the web will pass between them, thus radiant energy is directed at the web from both sides simultaneously.

## Fast 'on,' even faster 'off'

Since quartz lamps do not require lengthy warmup time, the systems reach full power in 0.6 seconds, and when switched off will stop radiating energy in 0.2 seconds. This allows you to only have the system 'on' when there is an immediate drying requirement, conserving energy and saving heat.

Each dryer panel has a high-temperature fan forcing cool air over the leadwires in the lamp and sockets, and all of these systems are monitored to provide instant cutoff to prevent overheating. Web temperatures are maintained between 70° C - and 90°C, and temperatures on the web will not exceed 100°C.



## Designed to fit

When a JDV system is installed, your press is measured and the dryer is manufactured to fit. Every effort is made to optimize performance without requiring major modifications that would lead to extended downtime. The dryer is generally located so the web must pass through it just before entering the rewinder, sheeter or folder.

## Low cost and quick delivery

JDV infrared dryers costs considerably less than a comparable hot air/gas dryer. And we can engineer and deliver a system specifically for your configuration in weeks.

For more information on shortwave IR dryers for your web, flexo or offset printing applications, call us at +31 299 689020.



## JDV's Web IR Dryers Let You:

- Extend printing range and types of jobs
- Ideal for nonheatset printers
- Use as a booster for gas ovens
- Improve print quality
- Install with minimal or no press modification
- Increase present printing speeds
- Eliminate ink buildup
- Use higher grades of paper stock

## Other JDV Printing Solutions

- Sheet fed offset dryers
- UV drying systems
- Heat/powder/fume exhaust systems
- Flexo dryers