



## **SHORTWAVE INFRARED DRYING SYSTEMS FROM JAC. DE VRIES INFRAROODTECHNIEK**

# **WEB DRYING SYSTEMS**

- IMPROVE PRINT QUALITY
- INSTALL WITH MINIMAL OR NO PRESS MODIFICATION
- INCREASE PRESENT PRINTING SPEEDS
- ELIMINATE INK BUILDUP
- EXTEND PRINTING RANGE AND TYPES OF JOBS
- USE HIGHER GRADES OF PAPER STOCK
- IDEAL FOR NONHEATSET PRINTERS
- USE AS A BOOSTER FOR GAS OVENS

CURRENTLY WE HAVE SYSTEMS INSTALLED ON THE FOLLOWING PRESSES:

**KBA/ALBERT 200S \* HARRIS V-15D \* KIDDER \* HENSHAW \* HEIDELBERG V30 \* HANTSCHO  
GOSS COMMUNITY \* TIMSON \* SOLNA \* CLAUBERG \* MAN UNIMAN \* KOMORI CHAMBON**

# KNOWLEDGE AND AUTHORITY IN DRYING SYSTEMS

**The name is... Jac. de Vries Infraroodtechniek BV. Established more than 25 years ago, as a spin-off of a large renowned firm of contractors and fully specialised in industrial drying and heating processes. Primarily infrared drying and heating, but also UV Curing and hot-air drying techniques.**

## WELL AT HOME IN THE GRAPHICS INDUSTRY...

Jac. de Vries has gained a good reputation in the graphics industry. Our drying systems are used all over the world, which is of no surprise. This, because the drying of printing inks and dispersion paints can be greatly accelerated with hot-air infrared techniques, allowing major savings in time and increased outputs. Jac. de Vries has for example developed tailor-made systems for sheet fed and rotary offset, silkscreen and flexo printing, but also for glueing lines and binding machines.

## ...BUT EVER MORE IN OTHER INDUSTRIES, TOO

Jac. de Vries now also produces infrared systems for numerous other industrial applications. For example for heating waterborne adhesives used in glueing work surfaces and kitchen surfaces, wood and various types of rubber(foam) and in forming veneers and formica. Infrared techniques can also help realise greater efficiency and higher outputs in the food, paint and plastics industries, too. The high level of precision with which the processes can be controlled enables faster drying and better glueing or fusion in these fields, too. And that means a better product quality, fewer production risks and less waste.

## TAILOR-MADE SYSTEMS FOR THE BEST RESULTS

Jac. de Vries focuses not on mass production, but on tailor-made systems, fully geared to the properties of products and processing methods. Specific solutions for specific applications, focusing on efficiency and effectiveness - the two factors that ultimately lead to greater savings in time and money in your production process. This individual tailoring is one of our greatest strengths, and the costs involved in a tailor-made solution often prove to be quite reasonable because we don't have to reinvent the wheel over and over again. We rely on previously gained

experience, and know exactly what is feasible or will lead to the best results.

## OUR WORKING METHOD

Our tailored offers are made only after close consultation with our customers. We first determine which type of in-fared heat (short-/medium-/long-wave) will be most suitable for the production process concerned. Aspects that must be considered are the properties of the material that is to be heated, in which part of the process the heating can best take place and how the heating process can be optimally controlled. Our great experience with different heating techniques enables us to realise the greatest possible yields at the lowest possible costs. Our systems are installed by specialists, guaranteeing optimum tuning and clear instructions. You can also rely on us for any help you may need after you have taken your system into operation. Our service department will be there to support you in the event of any malfunctioning or if you want your system to be adjusted to new conditions. In short, you can rely on Jac. de Vries not only for competitively priced tailor-made infrared drying systems guaranteeing high yields, but also for the best possible service.

## OUR OPTIONS

Heating and drying is often affected with the aid of short-wave infrared. With this technique, virtually no heat is transferred to the air and the heat penetrates the material very well. In the case of thin materials, such as film or paper, a reflector can be placed on the other side for even greater efficiency. Short-wave infrared moreover reaches its power immediately and returns to zero just as quickly. A safe and energy-saving option ... The place in the production process in which the drying or heating is affected may also be a decisive factor. For the graphics industry we have developed end dryers and intermediate dryers, some for use in the most awkward places, as well as sandwich

dryers for double-sided printing of paper lines. Always with due consideration for the most efficient and profitable solution, or one that yields the best end products in terms of quality. Tailor-made solutions - that's what we stand for...! But infrared is not always the most apt solution. Our range of services includes many other systems, such as UV curing and hot-air drying (e.g. using air knives), optionally combined with exhaust systems. Which solution will be the most appropriate will of course depend very much on the intended application, the objectives to be realised or factors of efficiency. We will gladly support you with advice.

## SAFETY AND ENVIRONMENTAL ISSUES

Effectiveness and efficiency are of course important advantages of our products, as is good, fast service. But safety and environmental issues are also key concerns at our company. Needless to say, safety involves excellent control of the drying and heating processes. That's why a lot of attention is paid to fine tuning and control measures. Most of the procedures can be continuously adjusted with a high level of precision and can more-over be switched off at top speed. We also supply all kinds of control equipment for various systems (such as humidity and temperature meters) and exhaust systems (for example for hot air or anti-stain powder).

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Among the products designed and manufactured by Jac. de Vries Infraroodtechniek are:

### IR drying equipment for:

- Sheet fed offset printing
- rotary offset printing
- silkscreen printing
- inkjet systems
- flexo printing
- paint and other industrial applications

### IR heating equipment for:

- window glueing line machines
- binding machines
- glueing of wood and plastics
- other industrial applications

### IR equipment for IR sauna cabins

### Hot air dryers for:

- dispersion paints
- dispersion coatings

### UV curing for:

- sheet offset printing
- rotary offset printing
- paint and other industrial applications

### Exhaust systems for:

- anti-stain powder (graphics industry)
- hot air
- humid air
- odours

### Accessories, such as:

- IR and UV lamps
- stack temperature and humidity meters
- ink mixers (FreMix)