



PERFECT PRINT

EccoCure

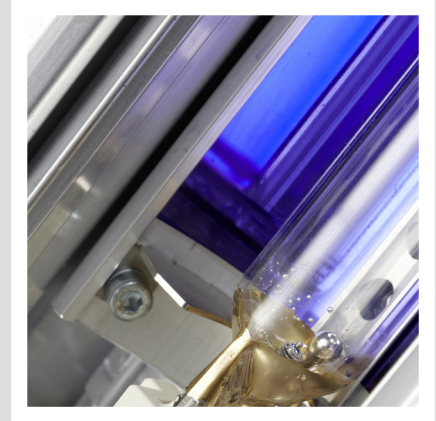
Energy-saving UV technology for LED inks

EccoCure

EccoCure drying offers an interesting alternative for UV printing:

- **Economical UV radiation technology**
- **Use of LED inks and varnishes**
- **Low heat generation**

This new UV curing process is particularly attractive for foil, plastic and commercial printing. Inks originally developed for LED drying are hereby combined with matched and approved UV curing. This offers you the opportunity of exploiting the advantages of both these technologies at very economical conditions. It is a foregone conclusion that both you and your customers will be delighted with the high gloss and resilient surfaces, which can be achieved by this printing process.



Cost-minimized

You will save twice with the-EccoCure:

- **Low investment in equipment**
- **Low energy consumption**

The number of UV modules may be reduced through the combination of highly reactive LED inks with a UV lamp tuned to these wavelengths: one final dryer will, for instance, suffice for four-colour printing at common printing speeds. The fast surface curing allows rapid further processing of the print job even as the curing reactions in the ink application – as opposed to conventional UV printing – continue for a while.

The total investment in equipment for energy supply and cooling technique is clearly reduced due to the lower number of UV modules, which also reduces the continuous energy consumption. This cost-effective entry into UV technology opens up new lines of business and opens up scope for augmenting installations on your printing machine.



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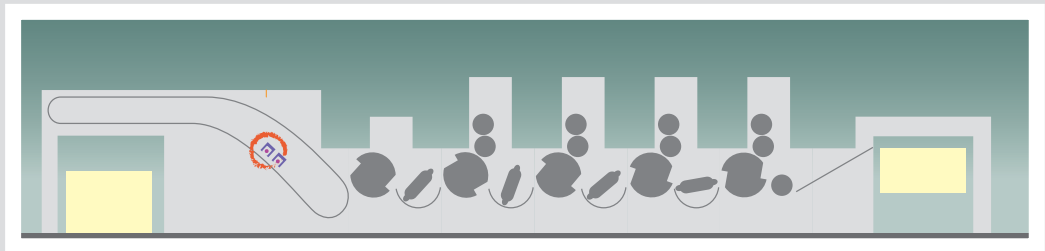
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Example of installation

One UV lamp with 120 W/cm generally suffices for simple four-colour printing with LED inks. It is installed in the delivery. A second UV module is necessary for additional application of LED varnishes, which simultaneously also enables the application of particularly thick inks or high printing speeds and guarantees high process reliability.

The ozone-free curing process does not require ozone extraction, besides this technique generates relatively little infrared heat. Water air combined cooling of the lamp module is therefore smaller dimensioned than in the conventional UV printing.



Fitting complementary infrared hot air modules in the delivery, interchangeable with the Green UV modules, offers the option of flexibly using both conventional inks and varnishes as well as LED inks and varnishes on the same machine.

UV lamp benefits

Special doped and LED ink-tuned UV lamps are used in the LED ink drying process:

- **Ozone-free curing process**
- **Simple lamp replacement**

Due to the lower acquisition costs, the application of these LED ink-tuned UV lamps is clearly more economical than of LED irradiating units, even when considering the life-span. The careful ignition and the small thermal load provide for a long period of operation of the lamp. Accordingly, lamp change is rarely necessary, besides being simply done within one minute and without requiring any tools. By eliminating short-wave radiation, an ozone-free permanent running is possible.