

HiJet E-Line

Energy-efficient drying

System characteristics

- Highly efficient combination of IR and hot air
- Working widths of up to 2300 mm
- Replaceable air nozzle profiles
- Compact and autonomous drying units
- Individual setting of air volume, air temperature and IR output per unit

Advantages

- Excellent drying characteristics
- Energy efficient
- Simple to integrate and compatible with lots of systems
- Simple to upgrade thanks to modular design
- Independent drying units guarantee high level of production safety

HiJet E-Line is an efficient drying system from Eltosch Grafix, the specialist for IR/hot air drying systems for the graphics market and industrial applications. As standard, the system consists of a drying module with two integrated hot air nozzles, two powerful IR emitters and a compact supply unit with an air heater, fan, control unit and safety equipment. Several drying modules can be merged into one system with different drying zones.

Characteristics

Each unit is equipped with a control unit with which the air temperature, IR output and air quantity of each segment can be set individually and continuously. Additionally, each of the units has its own safety-related monitoring system for all of the important parameters.

The system has been designed in such a way that production downtimes can be avoided. The autonomous functionality of the individual drying units ensures that maximum production safety is achieved. If a module fails, production is ensured by the other modules.

The air flow on the substrate can be adjusted to the production process by means of the replaceable air outlet profiles and individually adjustable nozzle angles. This guarantees the best drying results even at reduced air quantities.

A particular highlight is the energy efficiency of the HiJet E-Line drying system. The required air can usually be absorbed from the process environment or the drying area. The higher inlet temperature of the air provides significant energy savings of up to 30% in comparison to standard systems. The IR emitters are equipped with gold reflectors on the rear side. In conjunction with a second reflective level within the module, this ensures that the best possible radiation efficiency is achieved. Eltosch Grafix has already been awarded the BG test certificate for "energy-minimised drying" for this system in 2012.

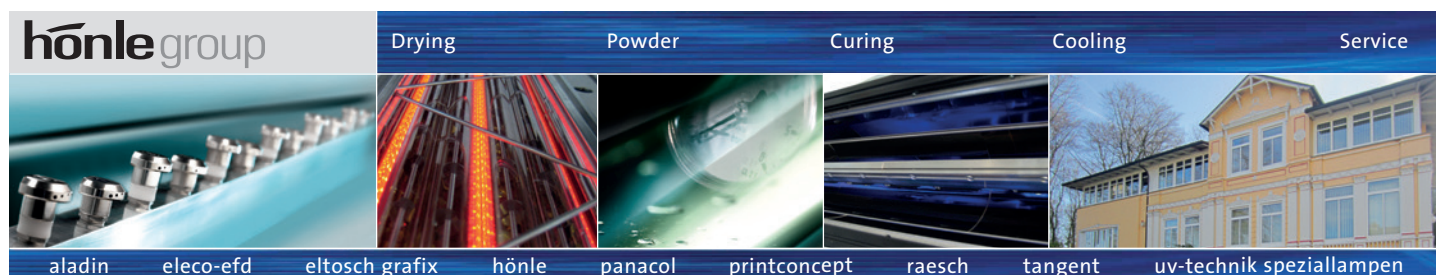
Areas of application

The HiJet E-Line system was specially developed for drying water-based printing inks, varnishes and industrial coatings. The drying system can be used for conventional print applications in the packaging printing, commercial printing and finishing sectors. In the digital printing sector with inkjet for medium to large working widths and higher speeds. On newspaper presses, protective varnishes are already dried at up to 10 m/s. Other areas of application include drying lacquers, paints, adhesives and special functional coatings in the converting industry.

In light of the modular design, the system is extremely versatile for printing, varnishing and coating applications (sheet-fed offset printing, inkjet printing, flexographic printing, newspaper presses, screen printing, industrial coating lines, special applications, etc.).

Main features:

- Combination of several drying modules in one system
- Different drying areas thanks to individual setting of the drying parameters per unit
- Each drying unit (drying module and supply unit) is connected via a bus system to a master control unit that has a touchscreen control
- High level of safety thanks to integrated monitoring of all the important parameters
- Energy-efficient due to the intake of pre-heated air from the process environment or drying area
- Fast heating of the air (no standby operation required)
- Air volume continuously adjustable between 30-100%
- Air temperature continuously controllable between room temperature and up to 120°C
- IR output continuously adjustable or controllable between 0-100%



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