

# SMARTCURE™ UV LED Family

## Industrial Inkjet Integration Modules



- Energy Efficient
- Long-lasting
- Compact
- No Ozone Emissions
- Low Heat Radiation onto Substrates



SMARTCURE™ 36

SMARTCURE™ 36i

SMARTCURE™ 72

SMARTCURE™ 72i

SMARTCURE™ 210

FREEZECURE™



### SMARTCURE™ – The Innovation in Environment-friendly UV Curing

With the SMARTCURE™ series, Atlantic Zeiser is presenting the latest generation of its highly regarded UV LED curing technology. The compact modules cure UV inks in a cost-saving and environment-friendly manner thanks to their low energy consumption, absence of ozone emission, reduced requirements for ventilation and cooling as well as operating lives that outlast those of lamp-based systems by factors. The LEDs can be switched on and off any number of times, so SMARTCURE™ can flash up only during the time in which the actual ink curing has to occur. This saves energy and increases the service life of the unit even further. Atlantic Zeiser's specially formulated fast-curing inks are perfectly suited for SMARTCURE™, resulting in high-contrast reproduction and strong ink adhesion even on non-porous surfaces, making the ideal choice for high-resolution variable data printing on a wide variety of substrates.

FREEZECURE™ is the first air-cooled LED pre-curing (pinning) module from Atlantic Zeiser, recommended for moderate production speeds and very demanding print quality requirements.

#### Your Competitive Edge

- Increased productivity ▶ speed and just-in-time production
- Production savings ▶ low operating costs
- Investment savings ▶ easy to integrate/use of existing production equipment
- Highly cost-effective ▶ price-performance ratio
- Easy integration ▶ rugged, compact design
- Investment protection & ROI ▶ extremely long service life
- Trouble-free operation

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### Discover the Future of UV LED Curing

Forget all the trouble that you have had to put up with from conventional lamp-based UV dryers in the past. UV LED based curing modules offer you:

- Drastically reduced operating costs
  - › 10-fold increase in operating life over Hg UV lamps
  - › 10-fold decrease in energy consumption over Hg UV lamps
  - › Instant on/off switching
  - › Environment-friendly operation
  - › No generation of hazardous ozone ⇒ no extraction necessary
  - › Less wasted heat ⇒ no extra room conditioning needed
- New applications
  - › Practically no heat radiation onto the substrate – important for temperature-sensitive applications
  - › Improved ink adhesion – crucial for applications using non-porous substrates

- Trouble-free operation
  - › No maintenance required
  - › Steady lamp output and wavelength throughout its operating life – less fading
  - › Homogeneous light coverage on the printed area
  - › Easy integration into existing production equipment
  - › Practically no heat radiation – important for operation in confined spaces

SMARTCURE™ modules ideally match with Atlantic Zeiser inks and print engines.

FREEZECURE™ effectively prevents ink droplets from bleeding, where wet-in-wet effects are not desired.

Technical Specifications	SMARTCURE 36	SMARTCURE 36i	SMARTCURE 72	SMARTCURE 72i	SMARTCURE 210	FREEZECURE
Illuminated Area (w x l)	50 x 75 mm	50 x 75 mm	75 x 50 mm	75 x 50 mm	225 x 50 mm	75 x 10 mm
Effective Light Density	30 W/cm	60 W/cm	20 W/cm	40 W/cm	20 W/cm	1 W/cm
Module Dimensions	120 x 120 x 300 mm	120 x 120 x 300 mm	120 x 120 x 300 mm	120 x 120 x 300 mm	120 x 310 x 300 mm	150 x 120 x 220 mm
Required Cooling Capacity	1.2 kW	1.6 kW	1.2 kW	1.6 kW	5.8 kW	0 (air-cooled)
Required Refrigerant Flow	6 l/min	6 l/min	6 l/min	6 l/min	18 l/min	0 (air-cooled)
Ideally Suited for Use with	OMEGA 36 up to 30 m/min	OMEGA 36i up to 60 m/min	OMEGA 72 GAMMA 70 up to 30 m/min	OMEGA 72i up to 60 m/min	OMEGA 210 up to 30 m/min	OMEGA 36 OMEGA 72 up to 60 m/min
Available Inks	Atlantic Zeiser SMARTCURE inks					
Standard Delivery	curing module; curing controller					
Options	cooling unit; UV shield					

### Atlantic Zeiser’s High-Resolution, Substrate Flexible Print Engine Families for Your Production Needs (selection)

- » OMEGA™ print engines (UV inks): offset-class print quality with spot color; extremely versatile, robust and cost efficient
- » DELTA™ print engines (UV or aqueous inks): offset-class print quality and productivity with spot color; ink saving
- » GAMMA™ print engines (UV inks): offset-class print quality with full color CMYK (& White)

### Off-the-shelf End-to-end System Solutions from Atlantic Zeiser (selection)

- » DIGILINE™ Web – digital printing and coding web-to-web for label, booklet label and flexible package printing
- » DIGILINE™ Sheet – digital printing and coding sheet-fed for carton sheet, mail, transpromo and security printing
- » DIGILINE™ Single Product – digital printing and coding for different product form factors in package and direct product printing