

BLK®-CI LAMPcure

Oxygen-reduced UV system



The BLK®-CI is a new UV drying system that was specially developed for use in central cylinder machinery. Due to their compact size, central cylinder machines only allow very little space for UV dryers and require perfect heat management. There are many features that make it easier for the user to operate the UV drying, guaranteeing optimum production conditions.

Compact size

The optimised dimensions of the BLK®-CI, with a width of almost 11 cm and a height of just 14 cm, facilitate its smooth integration into all central cylinder printing presses, even when space is restricted. The dryers are easily accessible at all times for any maintenance work. Lamp lengths of up to 2350 mm are possible without any changes to size.

Reduction of oxygen

The reduction of oxygen is achieved with nitrogen. Here, the oxygen from the air is displaced by the nitrogen. The nitrogen works as an inert gas and thus prevents the aerial oxygen from attaching to the radicals that have been formed. This thus improves reactivity, so irreproachable products are possible. With greater reactivity, there is also an option of reducing lamp output. A system with reduced oxygen is not only favourable for food packaging, it also boasts clear advantages for the printing of temperature-sensitive materials. The use of nitrogen also prevents the formation of ozone.

Overprinting ventilation

With this system, the lamp is directly cooled by the inert gas. The inert atmosphere prevents any polluted ambient air from being transported by the lamp and reflector. This effectively prevents any contamination of the lamp or reflector. There is also no need for any additional quartz glass plate which would absorb some of the UV light required for curing.

FLC® Fast Lamp Change

The cordless FLC® UV lamp system enables the UV lamp to be changed quickly and easily. It can be removed from the lamp unit with just one movement.



UV unit, type BLK®-CI

Heat management

Any heat introduced to the process is effectively dissipated by the water cooling of the reflectors and the housing. The positive pressure ventilation with nitrogen guarantees an even cooling of the lamp over the entire length.

Hot Swap Technology

BLK® UV systems are fitted with the same ELC® type electronic power supply devices as standard. They can be used to continuously regulate the dimming range of the UV lamp. Both BLK® -CI LAMPcure and LEDcure units can be operated interchangeably with the same ELC®.

URS® inlay reflector

The geometry for the BLK® LAMPcure reflectors has been further optimised, enabling a maximum UV yield and an additional output of 10%.

BLK®-CI LEDcure: Highly efficient LED technology

Hot Swap Technology enables the operation of LAMPcure and LEDcure systems. The BLK®-CI LAMPcure can easily be retrofitted with a LEDcure system.

High-performance LEDs

The BLK® -CI LEDcure is ready to use immediately after switching it on. There are no warm-up or cooling times, which saves both time and energy. LEDs have a long service life. However, modules can be replaced easily if required. Available wavelengths: standard 385 nm, other wavelengths on request.

Existing UV units that are already operated with the ELC® -X/PE series can be **retrofitted with a LEDcure** system.

Water cooling for lamps and LEDs

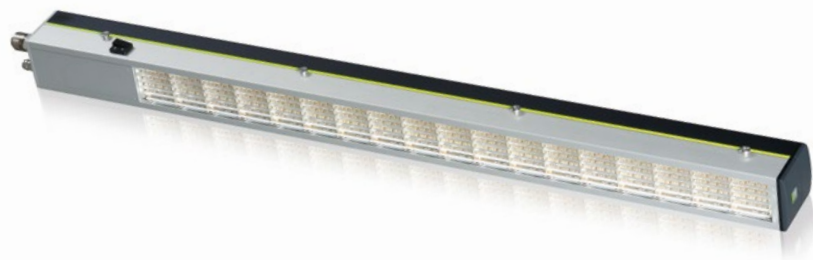
Water cooling of the LED chips for high efficiency and a long lifetime of the system.

Newly developed optics made of lenses that are designed for specific applications allows for an optimum UV output on the substrate.

Smart Control

The new generation of the BLK® product family can be equipped with the Smart Control system user interface. This makes the operation of UV systems clear, it is easy to use and it allows straightforward integration into the control systems of all common kinds of printing press.

	BLK®-CI LAMPcure	BLK®-CI LEDcure
UV technology	lamp	LED
Power level	200 W/cm	75 W/cm
Version	✗	115 W/cm
Cooling	water-cooled	water-cooled
ELC® electronic power supply device	ELC®-PE ELC®-X	ELC®-PE ELC®-X
Control	UCS-i, smart control	smart control
UV measurement	online	✗
FLC® Fast Lamp Change	✓	✗
URS® Inlay Reflectors	✓	✗
Run-up time	approx. 80 s	1 s
Heat management	optimized for water-cooling	optimized for water-cooling
Change to LED or lamp system (Hot Swap)	✓	✓
Spectrum – standard	Hg	385 nm
Spectrum – versions	Fe, Galn	365, 375, 395, 405 nm
Options	- inertisation - cooling roller - undershielding - UMS-2 measurement	- inertisation - cooling roller - undershielding - stacking concept - zone switching
Maintenance	lamp replaceable	LED modules replaceable
Remote maintenance „Remote Ready“	✓	✓
Format switching	✗	✓



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