



**BLK®**  
THE MOST EFFICIENT  
UV SYSTEM OF ITS KIND

IST

The BLK is a water-cooled UV unit and has been perfected to ensure exceptionally high efficiency and significantly reduce power consumption. It enables lamp outputs of up to 240 W/cm and a total output of up to 36 kW. The BLK unit can be easily integrated into machines thanks to its slim design in the throughput direction. Minimised exhaust air volumes during operation have a positive effect on the efficiency of this technology and reduce operating costs. The BLK is the most widely used UV system with maximum reliability and a lamp length of up to 2.4 metres in industrial environments.

#### **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.

#### **IPS CONTROL GENERATION**

The intelligent IPS Control System allows for a variety of additional functions, such as IST Remote Service.

#### **UV MEASUREMENT**

The UV system is prepared as standard for UV measurement. The integrated UV online sensor controls the current lamp power permanently and allows to check the power in the touch panel.

#### **WARRANTY**

IST METZ provides a warranty for 10,000 operating hours on URS® type reflectors and 2,500 operating hours on UV lamps.

#### **URS® INLAY REFLECTOR**

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

#### **INERT GAS OPERATION**

An inert gas version of the BLK® is also available for special requirements, such as in the food packaging sector. More than 20 years of experience in this sector guarantee the perfect integration and very low gas consumption.

#### **ELECTRONIC POWER SUPPLY DEVICES – OPTIONAL**

Linked to the printing speed, the ELC® controller can continuously adjust the lamp output between around 30 and 100%. In standby mode, the power is automatically reduced to a minimum.



## LUV –HIGHLY EFFICIENT LED TECHNOLOGY

### HOTSWAP 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® and LUV units can be operated interchangeably with the same ELC®.

### HIGH-PERFORMANCE LEDS

The LUV 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 LUV 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®	LUV
UV technology	lamp	LED
Power level	200 W/cm	75 W/cm
Version	≥ 240 W/cm	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	ca.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	- intertisation - cooling roller - undershielding - UMS-2 measurement - reflector geometry	- intertisation - cooling roller - undershielding - stacking concept - zone switching
Maintenance	lamp replaceable	LED modules replaceable
Remote maintenance „Remote Ready“	✓	✓
Format switching	✗	✓

∞ WE HAVE THE CURE

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