

# Aero LED<sup>®</sup>

Air-cooled UV Curing System

**High power UV LED**  
for printing, coating and  
converting applications



AIR-COOLED



ENERGY  
EFFICIENT



RELIABLE  
PROCESS



Interchangeable  
UV curing systems

Designed and made in Britain

[gewuv.com](http://gewuv.com)

**GEW**  
...engineering UV

# UV LED made simple



## Fully air-cooled, high power UV LED

Single remote fan sited behind the press means no integrated fans or electronics in lamphead.



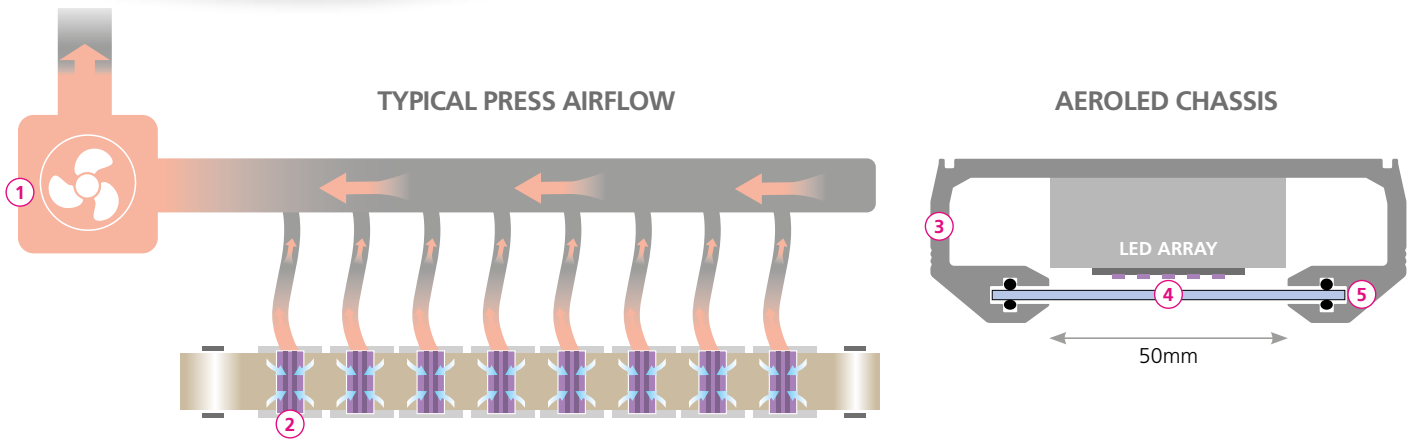
## Efficient and sustainable

No water-cooling reduces energy consumption versus arc lamps. Reduce energy costs 50-70%. No ozone, no mercury.



## Step change process reliability

Consistent LED output over lamp lifetime ensures perfect process control compared to variable arc lamp UV.



### ① Fully air-cooled

- Single centralised fan system for quiet and reliable operation.
- No chiller required; significantly reducing investment cost and power consumption.
- No heat exhausted onto press or into press room, air can be ducted out.

### ② ArcLED

- AeroLED uses the same fan and airflow as GEW's proven E2C system. This means E2C and AeroLED can be interchanged freely on any print station.
- High redundancy in the cooling design means no filters are required making life simpler and cleaner for operators.

### ③ Proven reliability

- AeroLED features the same LED chassis and core components as GEW's LeoLED, for proven reliability.
- Embedded temperature sensors constantly monitor the LEDs to ensure safe, long-term operation and reliability.

### ④ Most efficient curing

- Large window gives maximum light extraction; longer dwell time increases dose.
- Same LED modules as GEW's proven LeoLED lamphead.

### ⑤ Easy maintenance

- Tough watertight seals protect LEDs from ingress and make for easy cleaning.
- GEW's standard cassette design for easy maintenance. No integrated fans or electronics in lamphead.
- Robust air cooled heatsinks are easily accessible for cleaning when cassette is removed.





gewuv.com/aeroled

## Cut your energy costs



### Energy Consumption<sup>†</sup>

GEW E2C  
206,200 kWh

AeroLED  
69,800 kWh

>65%  
SAVING

## Free up mains capacity



### Electrical Requirement<sup>†</sup>

GEW E2C      65 kVA  
AeroLED      26 kVA

60%  
SAVING

<sup>†</sup> Figures for comparison are based on a 47cm width, 8 lamp curing system. Typical energy and electrical requirement savings of 50 to 70%, dependent upon configuration. Assumptions: 400V | 50Hz | 1000m above sea level | 25°C ambient temperature | 60% duty cycle | 2 shifts of 8 hours, 312 days per year.

#### Iñigo Pons

Director General, Ingo Group S.A., Spain

#### Using AeroLED on two Bobst M1 presses:

*"Ingo Group has worked with GEW LED for many years. Our trust in this technology is reflected in the fact that we no longer invest in conventional UV curing systems.*

*When AeroLED was introduced it was an automatic choice for us due to its simpler engineering without the need for a chiller, its reduced power consumption and its lower overall investment cost.*

*The installations were quick and seamless, on both presses... we were up and running in no time. The curing process is fast and precise... the performance of AeroLED is equal to that of GEW's earlier water-cooled systems."*

## ArcLED Hybrid LED+UV

# You Need It We've Got It



ArcLED cassettes can quickly and easily be interchanged; only a hex key tool is required.

**ArcLED hybrid UV technology allows interchanging of a UV Arc lamp or LED array in the same housing.**

Optimise your press with a mixture of Arc and LED curing on any station, for the ultimate flexibility.

### Specification

Max electrical power	53W / cm
Wavelength	395nm**
Irradiance at window	18W / cm <sup>2</sup> *
Typical dose @ 100m / min	185mJ / cm <sup>2</sup> *
Maximum length	60cm
Standard cross section	110mm W x 190mm H
Cooling	Air
Standard max operating temperature	35°C (95°F)
Standard max humidity	Non-condensing
Expected diode lifetime	>30,000 hours <sup>‡</sup>
ArcLED compatible	Yes

\* Measured under standard GEW lab conditions with a standard lamphead configuration.

\*\* 365nm, 385nm & 405nm available upon request.

‡ Lumen Maintenance Life Projection according to IES LM-80 and IES TM-21.

  
**AeroLED**<sup>®</sup>  
Air-cooling UV Curing System

# RETROFIT YOUR PRESS with **UV LED** in less than one day

IF YOU HAVE any of the list below	You will need these AeroLED system components:			
	AeroLED Lamphead	RHINO/RLT & HMI	Fan & Ducting	Shielding
E2C & RHINO/RLT system	✓	✗	✗	✗
E2C & eBrick system	✓	✓	✗	✗
Any other system	✓	✓	✓	✓

For GEW RHINO and RLT users, UV curing systems can be upgraded to AeroLED with minimal downtime by simply replacing the cassettes and running a software upgrade.

You can be working with LED in a few hours, without needing assistance from a GEW technician.



**The fastest, most affordable route to LED printing.**

## Relax... you're in safe hands

### GEW Remote Monitoring Service



Remote Monitoring is an IoT technology included as standard on every GEW RHINO/RLT UV system, and is Industry 4.0 approved.

All such systems are continuously monitored to ensure they are operating at peak efficiency, 24/7/365.

This also enables GEW to provide the **fastest and most precise service response in the industry.**

### System performance reports

The Event Log continually records system use and regular reports are generated for the customer, detailing energy usage, press productivity and system performance.

## RHINO power

### Compact, fail-safe power

RHINO and RLT power units can supply up to 12 UV lamps from one compact cabinet with a 1265mm x 800mm footprint.

The power supplies are designed to run in ambient temperatures up to 40°C and are protected from common mains power events (e.g. short-to-ground, mains dips) by a safe shutdown mode, for ultra-reliable operation.

### 5-year warranty available



Using GEW's embedded service package gives total confidence in the reliability of GEW power electronics, and minimises unplanned maintenance costs. **GEW is the only UV supplier to offer this level of warranty on the full system.**



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