

AeroLED®

Air-cooled UV Curing System

No.1
FOR
UV
LED

High power UV LED
for printing, coating and
converting applications



AIR-COOLED



ENERGY
EFFICIENT



PROCESS
RELIABILITY

AeroLED is designed and made in Britain

gewuv.com

GEW
...engineering UV

UV LED made simple



Fully air-cooled, high power UV LED

Clean, filtered air distributed from a single remote fan means no integrated fans or electronics in lamphood.



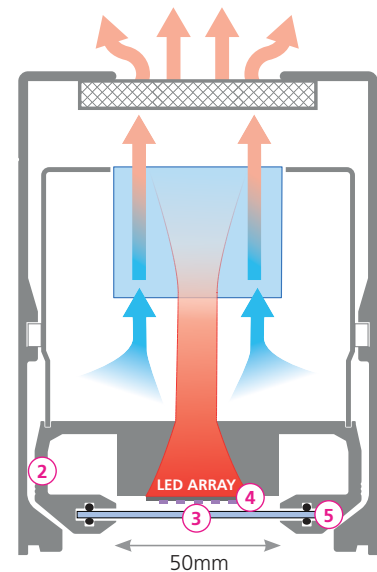
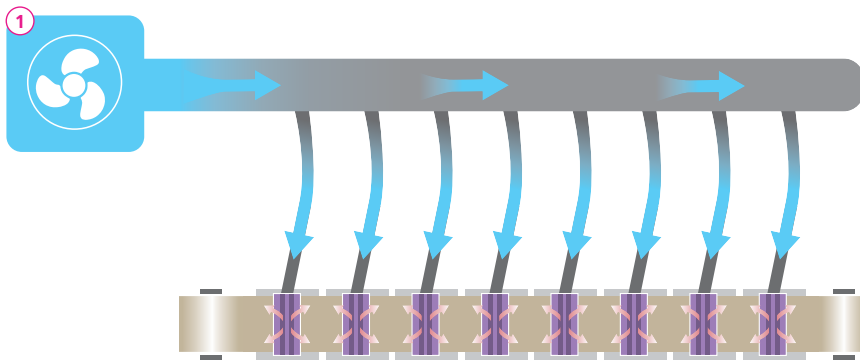
Efficient and sustainable

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 Air-cooled

- Forced air-cooling distributed from single centralised fan system for quiet and reliable operation.
- Fan sited away from press to avoid ink mist, large filter reduces replacement cycle.

2 Proven reliability

- AeroLED features the same LED chassis and core components as GEW's LeoLED, for proven reliability.

3 Most efficient curing

- Large window gives maximum light extraction, longer dwell time increases dose.

4 Replaceable LEDs

- LED array composed of 25mm replaceable modules for easy servicing.

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 lamphood.

Mark Freestone

Operations Director, Label Express Ltd., England

Using AeroLED on a Mark Andy 2200 press:

"We were keen on the idea of LED but we have a preference for air-cooling. So when GEW suggested we upgrade to AeroLED it was an easy choice. With perfect curing from day one we are convinced AeroLED is the future for Label Express, both for productivity and profit."

AeroLED[®]
Air-cooled UV Curing System



gewuv.com/aeroled

Specification

Max electrical power	62W / cm
Wavelength	395nm**
Irradiance at window	20W / cm ^{2*}
Typical dose @ 100m / min	180mJ / cm ^{2*}
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	>40,000 hours†
DualTech systems***	Yes

* Measured under standard GEW lab conditions with a standard lamphead configuration.
 ** 365nm, 385nm & 405nm available upon request.
 *** Arc and AeroLED "hybrid" system possible in **fixed positions** on machine.
 † Lumen Maintenance Life Projection according to IES LM-80 and IES TM-21.

Cut your energy costs

Energy Consumption[†]

GEW E2C
206,200 kWh

>60%
SAVING

AeroLED
79,900 kWh

Free up mains capacity

Electrical Requirement[†]

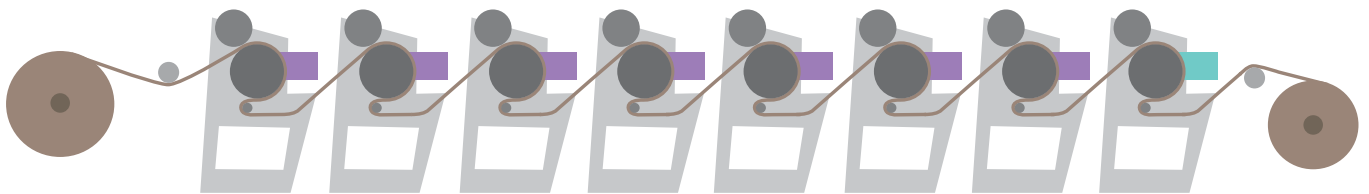
GEW E2C 65 kVA
AeroLED 30 kVA

>50%
SAVING

† 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.

DualTech versatility

AeroLED can be combined with Arc lamp curing technology on the same press, with the same RHINO power and control, with fixed print stations.*



AeroLED lamphead
 Arc lamphead

* Arc and AeroLED cassettes are not interchangeable, each print station will need to be specified to run one type only.



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 lampheads and modifying the air-cooling system.

Turnkey solutions

GEW deliver a complete integrated UV curing solution; including lampheads, cooling equipment, power supply and user control systems.



...the 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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