

E2C[®]UV

Curing System

The most powerful
low energy UV system
for narrow web presses

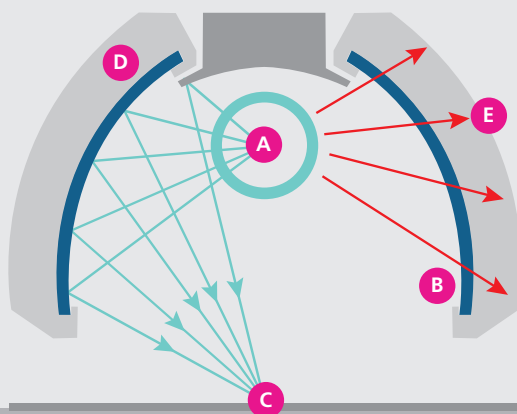


Designed and made in Britain

gewuv.com

GEW
...engineering UV

E2C UV Lamphead



- A High output lamp
- B Minimal loss reflector
- C Optically tuned UV radiation profile
- D Actively cooled reflector
- E Absorbed heat

GEW E2C UV curing

- Versatile, controllable and safe for the widest range of heat-sensitive materials
- Patented actively air-cooled shutter technology
- No heat transfer to the machine or substrate at stand-by
- Optically tuned reflectors maximise the lamps' curing effect
- Air-cooling is now more effective than water-cooling
- Supports the fastest printing speeds
- Highest dose + highest intensity = maximum curing
- LED ready: with a hybrid lamp housing an LED cassette and an arc lamp cassette can be used interchangeably on the same print unit



Lowest maintenance

- Engineered for fastest, easiest lamp changes
- All replaceable components are plug-and-play for easiest maintenance
- Patented active airflow path minimises consumption and contamination of lamp and reflectors: less cleaning is required to maintain curing performance

Specification

Max electrical power	140W / cm
Spectrum	Mercury**
Irradiance at focal point	5.8W / cm ² *
Typical dose @ 100m / min	125mJ / cm ² *
Maximum length	60cm
Standard cross section	110mm W x 190mm H
Cooling	Air
Standard max operating temperature	40°C (104°F)
Standard max humidity	Non-condensing

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

** Lamp variants available on request.

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System benefits

LED ready

- Upgrade easily to LED UV curing in future by using the same RHINO ArcLED hybrid power supply

Lowest total cost of ownership

- 45% energy saving
- Save tens of thousands of Euros or Dollars over the lifetime of your machine
- Reduced plant air consumption

Easily implemented sustainability measure

- Immediate reduction in CO₂ footprint
- Cool, quiet operation with no need for expensive water-cooling
- Eliminate all consumption of processed ambient air with NetZero cooling option

5-year warranty

- Safeguards against unplanned maintenance costs

Maximum machine productivity

- Fast start lamp technology
- System proactively avoids unplanned downtime
- Consistent, high-speed curing
- Quick to install

Available with inert atmosphere curing

- Enables production of silicone release liners and food packaging
- Process consistency assured with embedded precision oxygen level control
- Fully engineered solutions designed to suit your specific application

Options

- Doped lamps (Fe, Ga)
- Customisation to suit specialist applications
- Multi-point UV monitoring

Why use GEW E2C?

- The most popular air-cooled UV curing system in the world – **over 30,000 units installed** (June 2022)
- Delivers **unparalleled curing performance** due to patented, ultra-efficient reflector design
- Supports printing on the widest range of heat-sensitive materials due to **actively air-cooled reflectors** which reduce heat transfer to the substrate
- **Ultimate reliability**, proven since first installation in June 2012

ArcLED Hybrid LED+UV



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.



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.**



Head Office

GEW (EC) Limited, Crompton Way, Crawley RH10 9QR, UK

UK +44 1737 824 500

E sales@gewuv.com

Germany +49 7022 303 9769

W gewuv.com

USA +1 440 237 4439