E4C®

Air & Water-cooled UV Curing System

ArcLED®
Patented
Interchangeable
Technology

The **most versatile** water-cooled UV Arc system



Designed and made in Britain

gewuv.com

GEW
...engineering UV



Air and water-cooled

- Minimal air-cooling requirement enables higher power output allowing faster machine speeds.
- Centralised fan system for quiet and reliable operation.
- No heat exhausted onto press or into press room, air can be ducted out.
- Quick to install.

ArcLED compatible

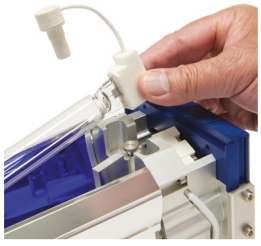
- E4C uses the same cooling system as GEW's LeoLED2 UV LED system. This means E4C and LeoLED2 can be interchanged freely on any print station, and that any future transition to UV LED is a quick and simple upgrade.

Proven reliability

- Patented water-cooled shutter technology built for a lifetime of robust operation.
- Highest quality design and construction for trouble-free operation.

Most efficient curing

- Optically tuned reflectors to maximise the lamps' curing effect.
- Supports ultra-fast printing speeds with fast start lamp technology.

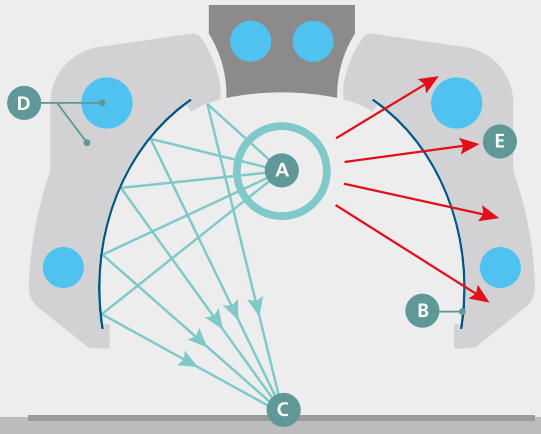




Lowest maintenance

- Engineered for fast, easy lamp changes
- All replaceable components are plug-and-play for easy maintenance
- Reflectors can be cleaned and fully replaced without breaking water seals
- Reflector mechanisms and seals tested to millions of operations to ensure reliability
- Water-cooling reduces installed air extraction requirements

E4C REFLECTOR PROFILE



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

Operational versatility

- Versatile, controllable and safe for the widest range of heat-sensitive materials.
- No heat transfer to the machine or substrate at stand-by.
- Consistent curing with doped and specialist lamp options available.
- Engineered for fast, easy lamp changes.
- Reflectors can be cleaned and fully replaced without breaking water seals.

Joe Engwall
VP Operations
Dreamworks GC, Illinois, USA

Using a four-lamp GEW E4C system on a Komori LS 840 press

"We challenge ourselves every day to be the best out there... we surely aren't the biggest, but our quality can go up against anybody… and UV is a huge part of that."

"Adding the 8-colour with the cold foil and the GEW E4C UV system has been a huge asset for us. UV has revolutionised what you can do with substrates, whether it be vinyls, clears, canvases, paper, coated, uncoated… any finish that's out there that you can put something on, we would say 'yep, no problem, we can do that'."

ArcLED

Patented Interchangeable Technology

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.

GEW have held granted patents covering this technology internationally since 2016.

Watch the ArcLED video demonstration

gewuv.com/arcledvideo



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

Specification	E4C	E4C HP
Maximum electrical power	160W / cm	220W / cm
Spectrum	Mercury*	Mercury*
Irradiance at window	8.0W / cm^2	10.4W / cm^2
Typical dose @ 100 m/min	150mJ / cm^2 **	215mJ / cm^2 **
Maximum length	165cm	120cm
Typical cross section	110mm W x 190mm H	110mm W x 190mm H
Cooling	Air & Water (25-40°C)	Air & Water (25-40°C)
Maximum operating temperature	40°C (104°F)	40°C (104°F)
Maximum humidity	Non-condensing	Non-condensing
Reflector type	Dichroic	Dichroic

Other specifications are available, dependent upon power supply and integration restrictions.
Maximum length for E4C is 250cm.
* Doped and specialist lamps available.
** Typical dose measured under standard GEW lab conditions with a standard lamphead configuration.

EOS intelligent options now available

Powered by RHINO®

- ☑ All standard features



Powered by EOS®

- ☑ All standard features PLUS:
- ☑ Detailed telemetry for accurate reporting, including hour and reflector counters
- ☑ Embedded intelligence auto-configures power supply for management and servicing
- ☑ End-to-end encryption for enhanced system security
- ☑ Allows rapid, unlimited cassette flexibility on each station

Relax... you're in safe hands

GEW Remote Monitoring Service



Remote Monitoring is an IoT technology available with GEW UV systems 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 **fast and precise service responses to all our customers.**

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.

Turnkey solutions

Factory tested and ready to run

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

Each system is operationally tested and certified before leaving GEW's manufacturing facility. Following installation and commissioning, the UV system is ready for a lifetime of robust, dependable 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.



gewuv.com/e4c

System options

- Doped and specialist lamps
- Inert atmosphere solutions
- Precision dose control systems
- System integration options
- Cooling and maintenance options
- Lamphead configuration options
- Fully engineered solutions designed to suit your specific application

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GEW
...engineering UV

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

UK +44 1737 824 500 **Germany** +49 7022 303 9769 **USA** +1 440 237 4439
sales@gewuv.com gewuv.com

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