

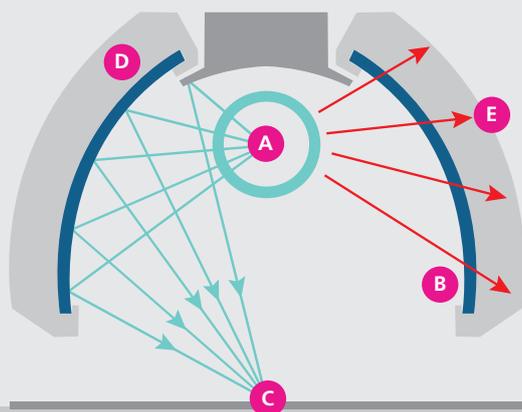
E2C[®]UV

Curing System

The most powerful
low energy UV system
for narrow web presses



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

ArcLED® hybrid UV technology

ArcLED allows use of a conventional UV arc lamp or LED array on the same print unit. Both arc and LED cassettes are compatible with the same power supply and fit in the same housing for ease of change.

The RHINO control enables any combination of curing technologies to be used on the same press.

Future proof UV technology

ArcLED enables the printer to switch between arc and LED curing at will to suit process requirements and ink formulation.

GEW arc and LED systems can both be upgraded in the field to the hybrid solution or be supplied in this configuration from new.

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.



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

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

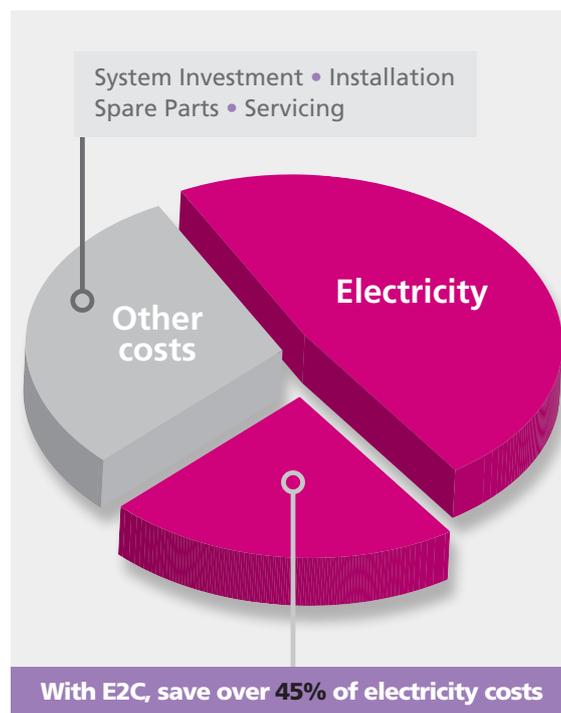
- Doped lamps (Fe, Ga)
- Customisation to suit specialist applications
- Multipoint UV monitoring

Why use GEW E2C?

10-year carbon footprint and electricity costs for 8-lamp 16" UV solution

	EUROPE		USA	
	€ cost	Tonnes CO ₂	\$ cost	Tonnes CO ₂ *
Other UV System	€235,500	800	\$242,000	1130
E2C UV System	€128,000	440	\$131,500	620
SAVING	€107,500	360	\$110,500	510

*Higher carbon footprint in USA is due to greater use of fossil fuels for electricity generation. Calculations based on 2019 US and European average cost and carbon footprint per kWh of electricity.



RHINO power

Fail-safe operation

Military-grade design protects the UV system from damage caused by incorrect voltage, short-to-ground, dropped phases, mains spikes and lightning strikes. In the event of a serious mains disruption, the system powers down in a safe mode.

RHINO is designed to run in the harshest conditions and at ambient temperatures of up to 40°C. The system is unaffected by dust, ink mist and other contaminants.

Lowest operating costs

With intelligent power management the current draw is balanced and harmonic distortion is minimised, reducing energy demand.

Minimal footprint RHINO Rack

A compact cabinet houses power supplies for up to 6 lamps and provides perfect cooling, atmospheric protection and mains power distribution.

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.

Ultimate control



RHINO touch panel

Embedded service

RHINO Control is connected to the internet and encrypted system performance data is sent live to GEW 24/7.

This ensures the fastest and most precise response to service issues available in the industry.

System performance reports

Regular reports are generated, detailing energy usage, uptime percentage and system performance.

The Event Log continually records system use and operating parameters, ensuring the system is working at peak efficiency at all times.



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