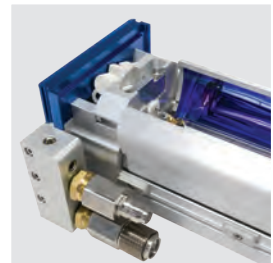


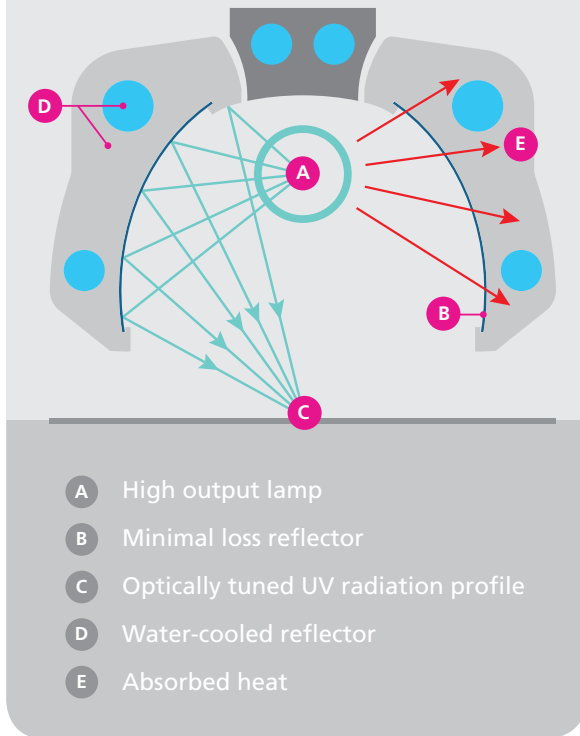
# E4C UV

Curing System

The highest power water-cooled  
UV system for the most  
demanding applications



## E4C UV Lamphead



## GEW E4C UV curing

- Highest power available from the GEW range, to support the most demanding UV curing applications in the market
- Compact 'E2C' profile to fit the widest range of machines
- Versatile, controllable and safe for the widest range of heat-sensitive materials
- Quiet operation with minimal air requirements
- Optically tuned reflectors maximise curing power
- Integrated flow switch ensures water flow at all times
- Water-cooled reflectors support highest UV power whilst limiting heat transfer to substrate
- LED-ready: hybrid lamp casing can house either LED or arc lamp cassettes
- Retrofittable on all E2C installations

## 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

### Specification

Max electrical power	220W / cm
Spectrum	Mercury**
Irradiance at focal point	10.7W / cm <sup>2</sup> *
Typical dose @ 100m / min	220mJ / cm <sup>2</sup> *
Maximum length	170cm
Standard cross section	110mm W x 190mm H
Cooling	Air & Water
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.



## System benefits

### Highest power

- High powered, standard profile lamp for Low Migration applications
- Supports the most demanding applications and fastest printing speeds
- Performs to the harshest cure test procedures

### Maximum machine productivity

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

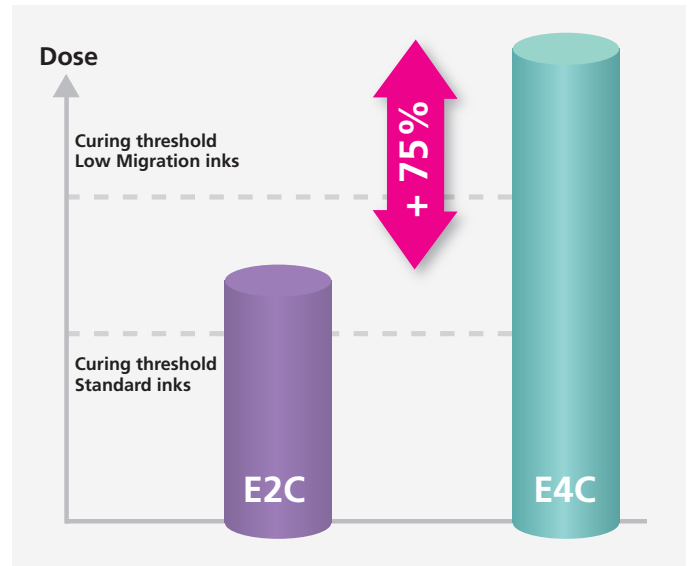
### Available with multi-point UV monitoring

- Attain 100% UV inspection for every batch
- Improve compliance to European food contact packaging regulations
- Easily see when UV lamps reach end of life



### 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



### LED-ready

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

### Retrofittable

- Compact design allows fitting to the widest range of machines
- Retrofittable on all E2C installations

### 5-year warranty

- Safeguards against unplanned maintenance costs

### Options

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



# 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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