

RC-900 Series

Pulsed UV Curing Systems

Delivering more curing power
for greater productivity.

Xenon has raised the bar for curing performance with the RC-900 Series UV Curing System. The RC-900 leapfrogs the industry in power and capability, enabling faster, more efficient and cost-effective curing in the most challenging applications such as Blu-ray Disc™, high-density semiconductor arrays and many other uses.



More power = more productivity.

The RC-900 features increased power and energy output driven by a new 6 kilowatt power supply, resulting in faster curing through a faster pulse rate. Manufacturers benefit from greater productivity and higher throughput.

In addition, the Xenon RC-900 utilizes Xenon's UV pulsed technology – rapid pulses of high-energy light that cure quickly and deliver important competitive advantages:

- Precision control of the UV pulses allows delivery of a precise, predetermined, consistent energy level with every curing cycle. You achieve better results and can match the RC-900 to your application to a degree that is simply not possible with most other curing systems.
- The RC-900's on/off technology uses much less energy than continuous mercury-based systems, allowing you to achieve faster curing while keeping energy use low.

If you want faster, more cost-effective curing – and the improved manufacturing productivity that goes with it – contact Xenon today to find out more about the new RC-900 Series.

Case Study Snapshot

Challenge: A leading manufacturer of optical discs wanted to reduce their overall curing time to improve their manufacturing productivity. Curing had become a bottleneck to productivity.

Solution: They incorporated the Xenon RC-900 Series into their manufacturing operation. Xenon worked with the company to customize the solution to their needs.

Result: The company reduced curing time by over 20%, dramatically increasing overall manufacturing productivity.





Description

The RC-900 UV Curing System is comprised of a controller, power supply, lamp housing and lamp. The prime measure of the unit's performance is the faster pulse rate operation that gives the RC-900 the ability to deliver 207 joules/pulse at up to 25 pulses/second. A new 6 kilowatt power supply (model PS-916) powers this higher pulse rate. Users of the RC-800 Series can upgrade to the RC-900 – all interfacing controls for both families are the same. The RC-900 spiral lamp and lamp housing handles a curing area of 14 cm diameter.

Two models are available:

- **RC-901** single-lamp housing – This unit is comprised of a controller, a 6 kilowatt power supply and a single lamp housing.
- **RC-902** dual-lamp housing – The 902 provides two lamps powered by a single power supply and controller. Each lamp is individually sequenced by the controller's high speed logic, making multi-lamp operation simple and cost-effective. Multiple lamps are used to provide more curing options, such as simultaneous top-down and bottom-up curing.

Xenon offers application assistance from our team of experts. We'll work with you on incorporating the RC-900 Series into your manufacturing operations – so you can enjoy the benefits of rapid, low-cost, highly productive cool UV curing.

Contact Xenon for the latest information

The RC-900 is being offered initially with the spiral lamp configuration. Other configurations, including different lamp styles and Xenon's patented InterWeave™ technology, are under development. Contact Xenon to learn about the latest news for this product.

Features

- Lower power consumption
- Low substrate heat
- High peak power – deep penetration
- Modular – ease of installation
- Many options – ease of matching application
- Lamp instant ON/OFF – no warm-up time
- High throughput with ultra short cures
- Single and dual lamp configurations

Applications

- Optical disc – bonding, top layer and hard coat curing
- Medical device manufacturing
- Plastic – bonding without damage
- Pharmaceutical packaging
- Rapid low heat curing of UV adhesives, coatings, inks and paints

Call us with your demanding application, and see what our engineers can do.



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