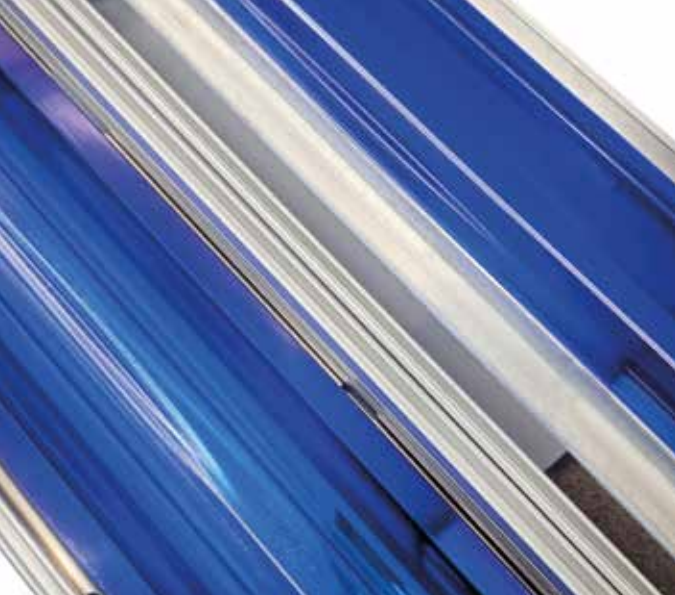




Your Partner in IR and UV Technology

Cold UV Curing System





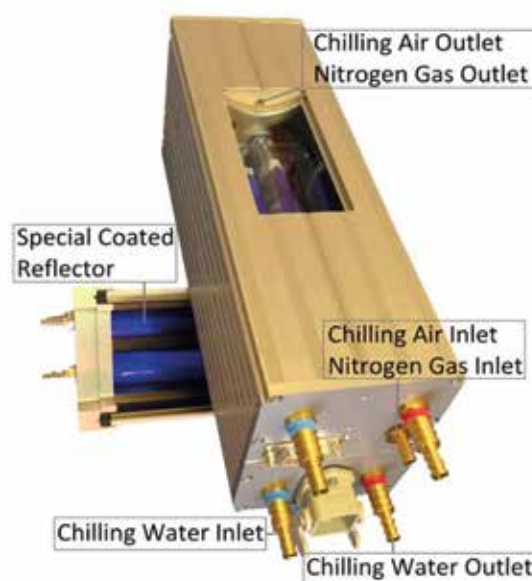
Cold UV Curing

VICTORY Cold UV Curing Systems are much more than just products. Over the past 20 years, VICTORY has focused on researching and developing cold UV curing to help our clients improve their printing speed and quality.

Why do you need a Cold UV Curing System?

Compared with other printing methods, reducing the UV curing temperature can help improve printing quality. The Cold UV curing temperature can also help improve the UV lamp's working lifetime. By our patented design lamp head, the general lifetime of our UV lamp is over 2000 to 3000 hours.

In addition, the lower curing temperature is good for curing UV lacquer on the thermal sensitive material. For example, printing base film as PET film, lowering the curing temperature will help improve printing with accuracy.



Features:

Lower curing temperature

All VICTORY UV lamps are built in our pattern designed lamp housing, which uses special heat absorbent reflector coating. These kinds of reflector can absorb 90% of IR caused by lamp lighting, and transfer heating to the built-in cooling channel in the lamp housing, so VICTORY lamps provide very low curing temperature.

Higher-efficiency UV energy output

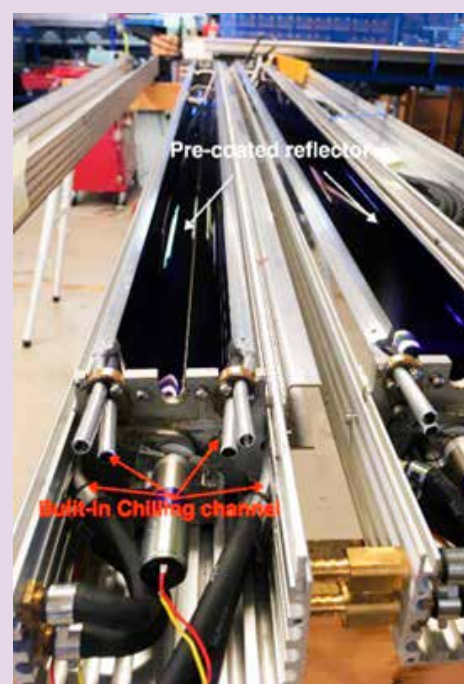
More than 60% output of a UV lamp is IR, meaning you can only get 80w/cm UV energy from a 200w/cm UV lamp. VICTORY Patent technology on a UV lamp head design increases UV curing efficiency by 30% by focusing UV light to a narrow line.

Better uniformity

VICTORY UV lamps provide high uniformity for UV energy output, some of our special design lamps can reach more than 90% for all curing area.

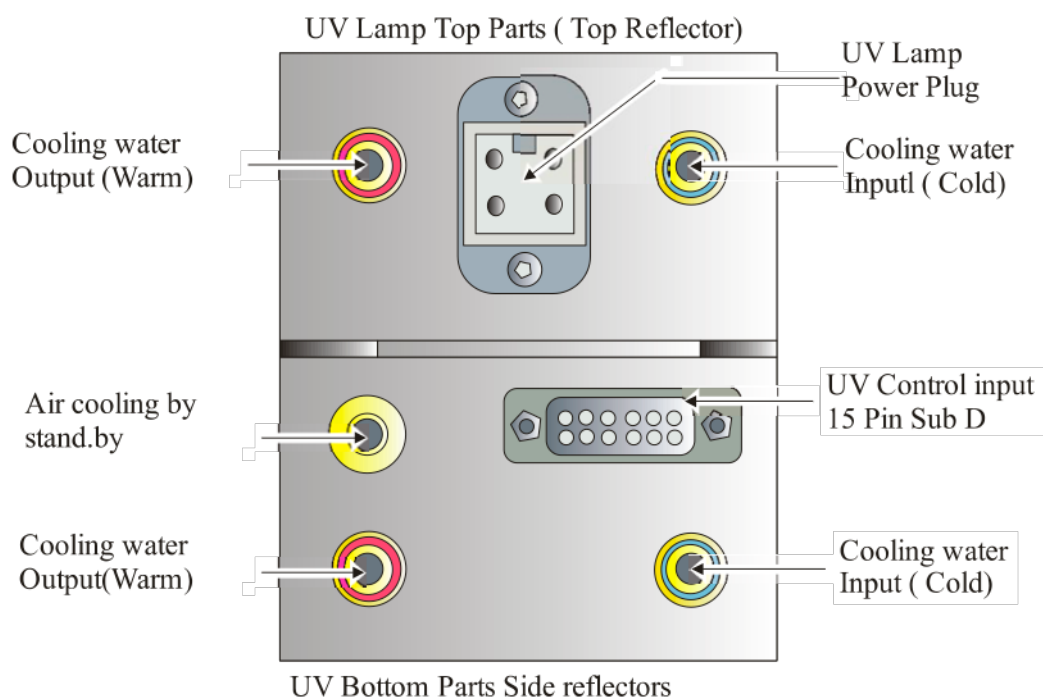
Plug & Play integrated system

VICTORY UV curing systems use a "Plug & Play" design, which is very easily installed. A complete system includes 1 set of UV lamp head/house, 1 set of Ballast with a control unit, 1 set of Integrated PLC system with touch screen, which shows all lamp working information.

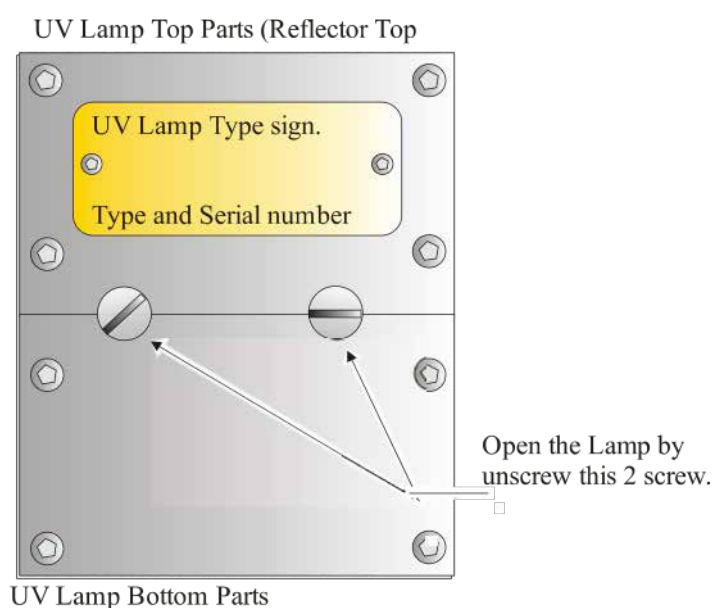




UV lamphead connections

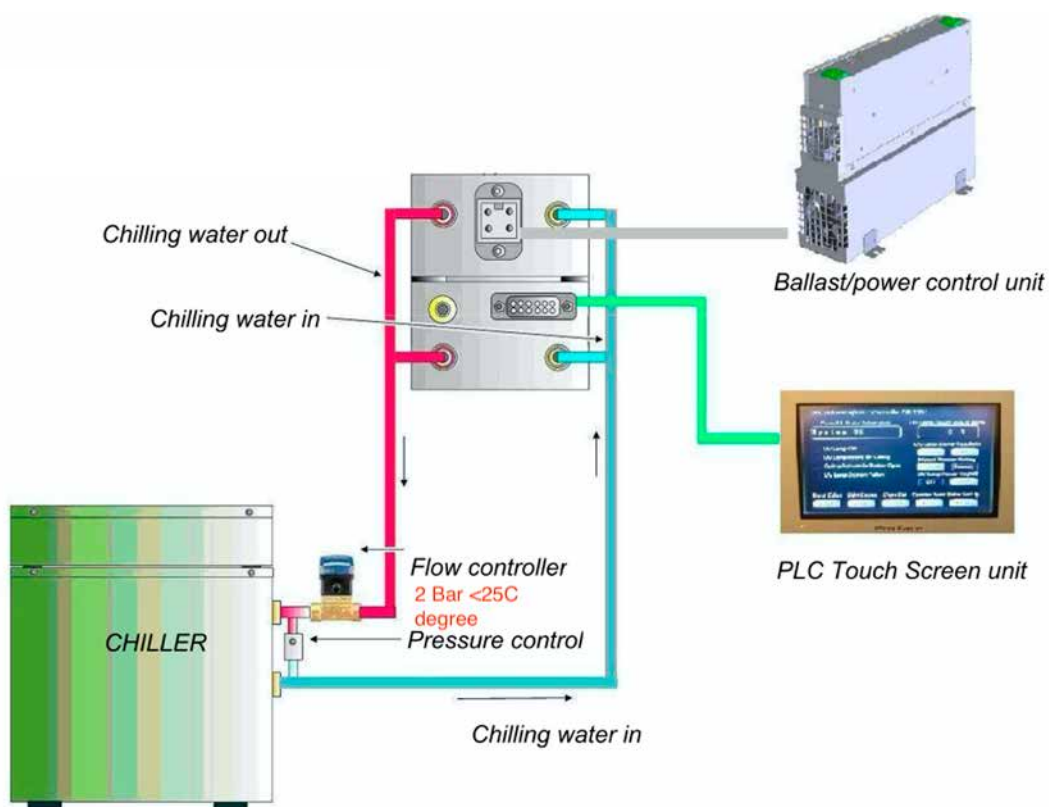
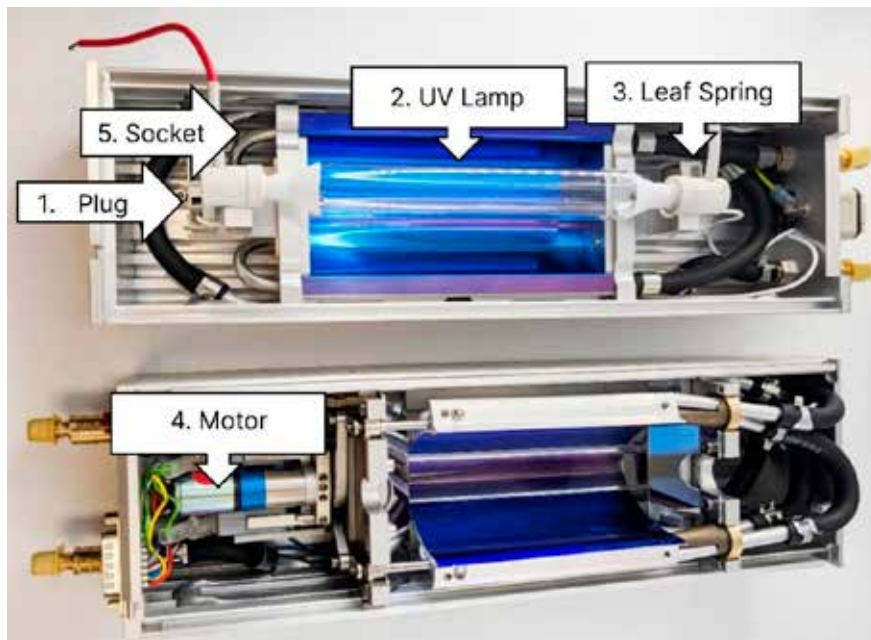


UV lamphead front





VICTORY UV Curing System





Technical Data

COLD UV CURING SYSTEM

Reflectors

Coated Reflectors (Cold Mirror Technology)

Precision-engineered for UV curing with heat-sensitive substrates

Victory's cold mirror reflectors are designed to deliver high-performance UV curing while reducing heat exposure to sensitive materials. Leveraging advanced multilayer coatings and optimized geometry, these reflectors significantly enhance UV efficiency while maintaining a cool substrate environment.

Key Benefits:

- **Maximum UV delivery, minimal heat transfer**
Only UV radiation is reflected, while unwanted infrared (IR) energy is filtered through and safely dissipated using integrated heat sinks.
- **Tailored for your process**
Reflector profiles and coatings are engineered to match specific application requirements—ensuring optimal UV distribution, extended exposure fields, and consistent curing results.
- **Efficient and energy-saving**
Laboratory and real-world testing confirm: Victory reflectors enable effective curing with lower power demands—cutting energy costs without compromising performance.
- **Engineered to last**
Built with robust materials and precision coatings, Victory cold mirror reflectors maintain high UV output over thousands of operating hours. Their durable surface is easy to clean and resists degradation over time.

Applications include:

- Offset, flexo, screen, and letterpress printing—especially for materials where controlled heat exposure is critical.

*Coated and
uncoated reflectors*



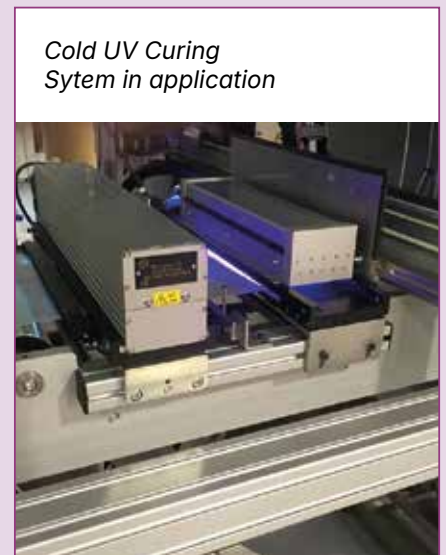
*Cold UV Curing
System Closed*



*Cold UV Curing
System Open*



*Cold UV Curing
System in application*





Reflectors

Uncoated Reflectors (Enhanced Thermal Assist)

Targeted heat and UV output for deep-curing performance

Victory's uncoated reflectors are developed to support applications where both UV energy and controlled heat are needed to achieve full curing—particularly on challenging substrates or thick coatings.

Why choose Victory uncoated reflectors?

- **Deep-penetrating heat for faster, fuller cures**
Designed to reflect not only UV but also infrared energy, Victory uncoated reflectors are ideal for applications requiring thermal support—ensuring the coating or ink cures all the way through.
- **Superior UV reflectance**
Our multilayer reflector design maximizes UV reflection, far outperforming traditional aluminium solutions in UV range effectiveness.
- **Optimised for process stability**
With consistent optical performance over time, these reflectors provide long-term reliability and uniform curing conditions across the lifespan of your system.
- **Long life, low maintenance**
Resistant to contamination and easy to clean, Victory reflectors retain high output across extended operating hours—minimising downtime and replacement costs.

Typical uses:

- Industrial wood and metal coatings, steel plate printing, and other demanding applications that require both UV and thermal energy to achieve optimal results.

Coated and uncoated reflectors



© Victory Lighting (UK) Ltd 2025

The information contained in this literature is for general information purposes only. Victory Lighting (UK) Ltd endeavours to keep the information up to date and correct, but makes no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information, products, services, or related graphics contained in this literature.

Victory Lighting (UK) Ltd accepts no liability for any loss or damage including without limitation, indirect or consequential loss or damage, or any loss or damage whatsoever arising from loss of data or profits arising out of, or in connection with, the use of this literature.

VICTORY



Contact us today

And learn more about our Ultraviolet technology solutions

+44 (0) 1525 487960

sales@victorylighting.co.uk

victorylighting.co.uk

VICTORY
ULTRAVIOLET

