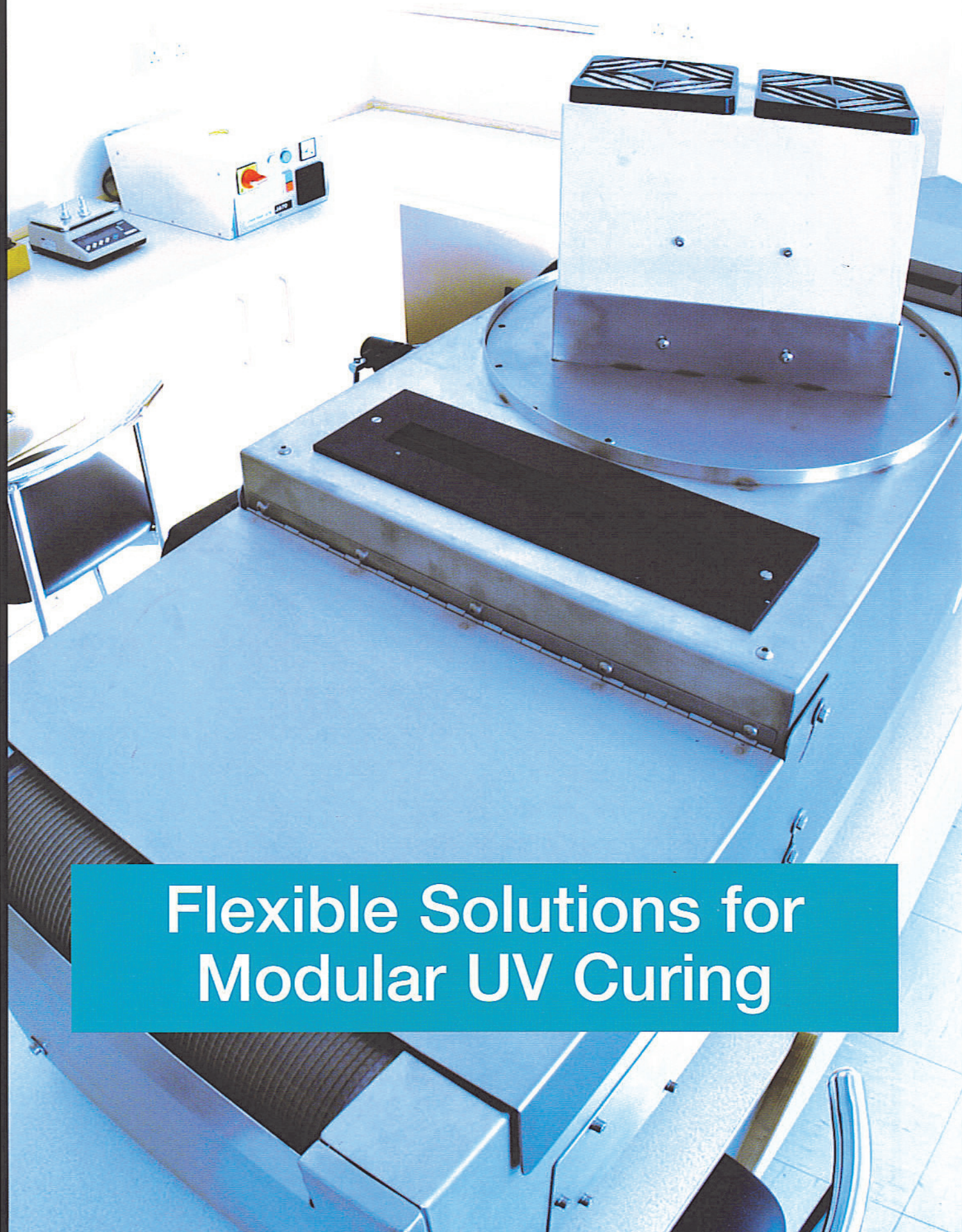




# JENTONGROUP

SPECIALISTS IN THE SUPPLY AND SUPPORT OF TECHNICALLY INNOVATIVE EQUIPMENT TO THE PACKAGING, PRINTING, CONVERTING AND ULTRAVIOLET (UVCURING) INDUSTRIES



**Flexible Solutions for  
Modular UV Curing**



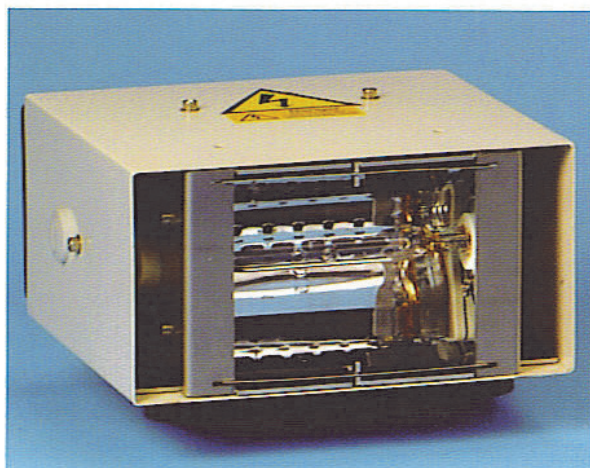
# Flexible Solutions for Modular UV Curing

With 30 years experience in the specification, production and supply of UV curing equipment, Jenton International offers a wide range of components, systems and technical support and consultancy.

Whether for laboratory research or full scale production situations JentonUV can supply UV Curing components or a complete systems solution.

## 'JA' Range of Compact Curing UV Lamps

The Jenton 'JA' series is a robust and well engineered range of air-cooled modular UV curing lamp systems for industrial processes such as adhesive curing, screen, coating, pad and ink-jet printing applications.



The three 'Small Footprint' units have been designed for installation where space is at a premium but high power UV outputs are still demanded.

Systems are available in three curing lengths; 70mm (2.75"), 115mm (4") and 150mm (6"). Their compact and regular dimensions make them easy to incorporate into light shields for mounting onto host machines.

The JA range is carefully engineered to ensure simple application, installation, operation and maintenance. The use of a fixed footprint and plug/socket connections virtually eradicates installation and set up complications.

The various power packs are designed to provide easy access whilst using limited space. The units may be controlled from either the Jenton power pack or remotely.

Options include quartz plate for isolating airflow, various bulb spectra and flood output profile.

## Features - Designed to Save Time and Costs

- Small footprint
- Quick bulb change
- Simple integration/operation
- Modular lamp head design
- Fast start
- Simple installation
- Choice of bulb spectral outputs
- Flood or focussed output profile
- Local or remote control
- Optional for airflow isolation
- Full range of control interlocks
- Filtered positive air cooling

## Specifications for Jenton UV Lamp Heads

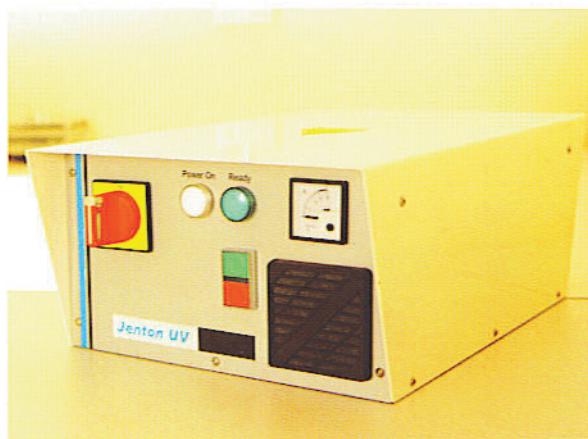
	<b>JA70SF</b>	<b>JA115SF</b>	<b>JA150 SF</b>
Cure width	70mm (2.75")	115mm (4")	150mm (6")
Arc Length	85mm (3.35")	135mm(5")	178mm (7")
Focal Length	50mm (2") from face of lamp unit		
Output	140w/cm (350w/in)	170w/cm (430w/in)	120w/cm(300w/n)
Power Consumption	1.2Kw	2.2Kw	2.2Kw
Extract Rate (Recommended)	2.1m <sup>3</sup> /min	3.1m <sup>3</sup> /min	3.1m <sup>3</sup> /min
Bulb Spectra	Mercury (standard) plus optional Iron, Gallium or Indium		



## New 'JA' Range of Power Supplies

JENTON offers a range of power supplies which incorporate advanced engineering and which are all compatible with the 'JA' UV lamp systems.

### JA 1200



The JA 1200 entry level unit offers a conventional ballast based solution for the Jenton JA 70 curing head. Control can be from an external source or from panel mounted buttons with a power meter included on the front panel.

### JA 1200 HR

The new Jenton UV JA 1200 HR incorporates a new instant restart ('Hot Restrike') technology. Medium pressure Hg based lamps can be turned off and restarted in less than a second in production, thus removing the need for shutters, standby capability or long delays in on/off production systems.

### JA 2000 VP



The JA 2000 VP units are compatible with the Jenton 70mm, 115mm and 150mm positive cooled small footprint lamp heads. These units are smaller and lighter than the fixed power system which they replace and contain the latest solid state variable power arc lamp power supplies. Their variable power range can be preset from the minimum sustain level of the bulb being powered, to the maximum stable power for each bulb's specification.

Both min. and max settings are variable and a proprietary control system allows a 0 to 10mA signal to vary output between the preset limits.

### General

Power supply components can be supplied in kit form or fully finished in stainless steel housing with power meter and interlock connection for control. All electronics and software are generated in-house and some customisation is possible, as are options such as feed back control from UV sensing/speed sensing for constant dose.

Units can be own-branded, if required.

## Specifications for Jenton Power Supplies

	JA1200	JA2000VP	JA1200HR / JA2000HR
Wiring	230v/1ph/50Hz or 110v/1ph/60Hz		
Max. power to lamp	1200w	2000w	1200/2000w
External on/off	yes	yes	yes
External status connection	yes	yes	yes
Power settings	fixed max	variable	fixed max
Restrike delay (approx)	3 mins	3 Mins	none
Control voltage	N/A	1-10v	N/A



## Jenton UV Conveyors

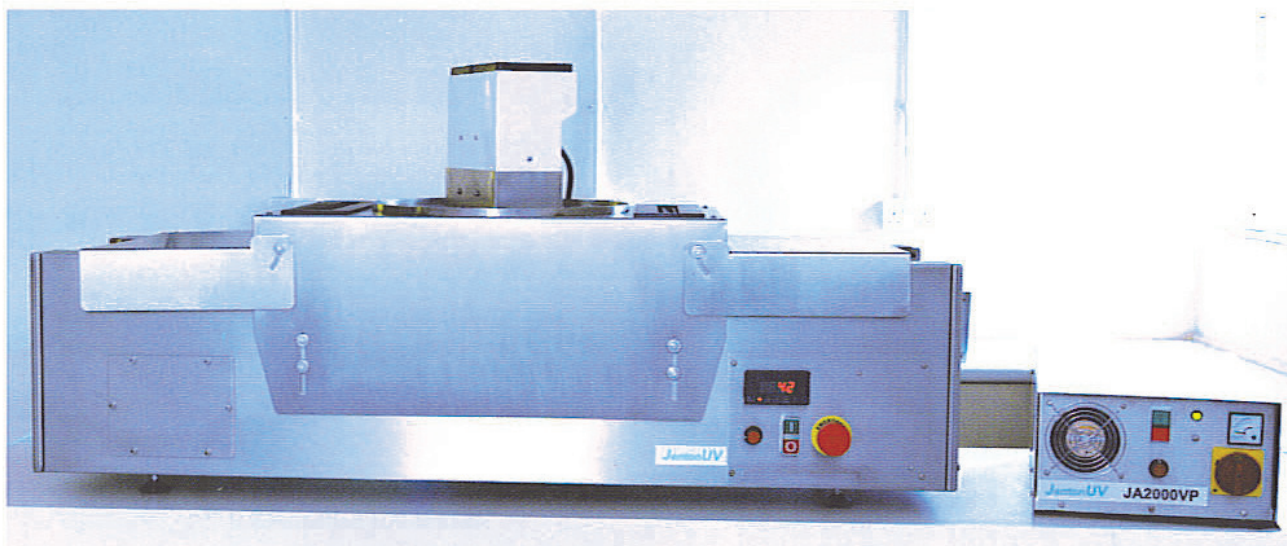
Jenton Conveyors are robust, stainless steel UV curing conveyors specifically designed for laboratory and development applications and continuous production line use.

They provide an infinitely variable speed output from a minimum of c.0.2m/min to a max c.150m/min. The light bridge is height adjustable to allow for differing products and flood versus focus testing / applications.

The conveyor bed can be bench mounted or free standing and contains the air box with plenum for exhaust or vacuum hold down capability.

The conveyors can accommodate JentonUV's own JA range of UV curing lamps, or lamps from most major suppliers. In all cases the conveyor control system can interface with control/safety interlocks, such as belt stop = lamp stop.

The frame can be customised for special applications and can be provided with mounting points or structures for IR or ink jet systems etc.



### Standard Specification for Conveyors

Electrical:	230v, 1ph, 50Hz
Speeds:	Max. 150m/min
Exhaust:	150mm plenum to suit external fan. Light shield incorporates louvres for make up air
Belt:	Teflon coated open weave. 315mm wide
External Dims.(approx):	L1400mm (1 or 2 lamps) x W470mm x H380mm + light shield/lamp
Options:	Lamp intensity monitor, Floor stand, RF detector mounting

### A BRIEF NOTE ON UV TECHNOLOGY

UV light is emitted at wavelengths between 200 and 400 nanometres. Such emissions are generated most commonly by Mercury (Hg) based plasmas, as generated in conventional Mercury-Arc medium pressure quartz bulbs.

UV light is absorbed by photoinitiators in UV cure materials and these photoinitiators act as catalysts in a polymerisation reaction that turns the liquid UV curing material into a solid in seconds or less. This technology has been commonplace since the 1970s and is essential for the manufacture of medical devices, optical fibres and CDs for example and used in many printing applications from shampoo bottles to magazine covers.



**Jenton International Ltd**  
9/10 Ardglan Industrial Estate,  
Evingar Road, Whitchurch, Hants RG28 7BB  
tel 01256 892194 fax 01256 896486

e-mail [sales@jenton.co.uk](mailto:sales@jenton.co.uk) [www.jentonuv.co.uk](http://www.jentonuv.co.uk)