

DuPont™ Cyrel® 1000 EC/LF

STATE-OF-THE-ART EXPOSURE, LIGHT FINISHER AND POST-EXPOSURE UNIT

DuPont Packaging Graphics

To help our customers gain competitive advantage in the global packaging graphics value chain.

DuPont Packaging Graphics continues to be a global technology leader in supplying flexographic printing systems. Our scientists continue to develop unique solutions based on new technologies to help our customers expand their business by taking advantage of new profitable packaging printing opportunities. DuPont Packaging Graphics portfolio of products includes Cyrel® brand photopolymer plates (analog and digital), Cyrel® platemaking equipment, Cyrel® round sleeves, Cyrel® plate mounting systems and the revolutionary Cyrel® FAST thermal system.

The Cyrel® 1000 EC/LF is the state-of-the-art exposure, light finisher and post-exposure unit, designed to expose all Cyrel® photopolymer plates, including Cyrel® FAST.

The exposure bed can accommodate a plate up to 35.4 inch by 47.2 inch (900 mm by 1200 mm). The exposure portion is a "clamshell" design for optimum productivity and excellent exposure and vacuum draw down.

Designed with customer needs in mind, it is easy to install, support, maintain, and operate. It is robust, cost-effective and extremely reliable.

The exposure section is made of a swiveling top holding twenty-four UV-A fluorescent tubes with built-in reflectors.



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One yellow control tube illuminates the exposure bed while inspecting the plate surface. The lower part features a water-cooled bed.

Unique to this exposure unit is the water-cooled, closed loop system that controls the exposure bed temperature, producing a more even polymerization of the plate, which translates into predictable and consistent exposures. The Cyrel® 1000 EC/LF has been equipped with an integrator that compensates for the decrease in light output as the bulbs age. This integration scheme allows for consistent exposure of the plates over the life of the bulbs.

To meet the demanding needs of high quality photopolymer plates the user can, easily customize the 20 basic exposure set-ups.

The post exposure and light finisher section is located in the top drawer below the exposure section. The drawer

is mounted on ball-slides and holds nineteen UV-C tubes and twenty UV-A tubes. The computer control board allows the user to perform post exposure and finishing in the preferred sequence, or simultaneously. The post exposure and finisher section has 20 basic set-ups that can be easily customized by the user.

Special features are available with the equipment. Each tube is constantly monitored by a photo-sensor. If the light emission of one or more tubes decreases below a set point, the user is alerted. This detection system is particularly useful and therefore enhances the SAFE use of the equipment under the most difficult conditions.

To assist the user in maintaining the highest level of efficiency, three counters are imbedded in the computer control board to keep track of the number of hours the UV-A and UV-C tubes have been working.



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“Advancing Flexography”

General	Details	Other notes
Equipment Name	DuPont™ Cyrel® 1000 EC/LF	Combined unit
SAP Article Number	MH74451A	Cooled exposure, dryer, post exposure and light finisher
Packing	Crate	
Max. nominal plate width	36 inch – 900 mm	Tested up to 37 inch – 940 mm
Max. nominal plate length	48 inch – 1,200 mm	Tested up to 48.8 inch – 1,240 mm
UV-A tubes wave length	360 nm	
UV-C tubes wave length	254 nm	
Electrical (field configurable)	208/250 Volt – 50/60hz * 370/440 Volt – 50/60hz **	Three phases and ground Three phases, neutral and ground
Power (nominal)	5 kW	Connection wires 5 x 2.5 mm ²
Current (nominal load)	25 Amp * 20 Amp **	
Grounding	≤ 0.1 Ω	Ground bar to equipment frame and to electrical supply ground
Exhaust (Light Finisher)	Ø 5.5 inch – 140 mm (Connection)	1,000 m ³ /h – 590 scfm
Environmental Data	Temperature range 65° to 85° F – 8.3° C to 29.4° C	Relative humidity from 20% to 85% non-condensing
Dimension	L W H	59 inch – 1,500 mm 71 inch – 1,800 mm 43 inch – 1,095 mm
Net weight		2,310 mm when finisher drawer is open 1,880 mm when exposure lid is lifted
Dimension w/crate	L W H	65 inch – 1,660 mm 75 inch – 1,900 mm 59 inch – 1,500 mm
Weight w/crate		1,410 lb. – 640 Kg
Colour	Grey and Red	DuPont grey and DuPont red

* Electrical configuration 1 ** Electrical configuration 2

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