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graphic field

air-cooled ultraviolet cure system



Description

The ultraviolet cure system has been designed and built to dry rigid and flexible sheets printed with UV inks. The equipment is compact and equipped with four wheels to be easily moved.

The UV cure system is born to be installed on the conveyor belt of the $\frac{3}{4}$ automatic screen printing machine model **VERTICAL 990 L** and **L4**, but **it can be also installed on any other screen printing machine and dryer** with at least 50 cm of free length.

Energy saving **New**

The system is equipped with a latest technology electronic device (made in USA) to control the power delivered to the UV lamp.

This allows for **energy savings up to 40%** compared to dryers that still use traditional devices.



Main technical data	
<i>Dryable materials:</i>	rigid and flexible sheets as paper, cardboard, PVC, polyester, polycarbonate, plastic, Plexiglas, metal, wood, glass, etc.
<i>Dryable inks:</i>	UV inks
<i>Max drying capacity¹:</i>	1800÷2000 sheets per hour
<i>Electrical supply²:</i>	400 V 3-phase + neutral, 50 Hz

[1] Data checked with a UV screen printing ink and a screen with 160÷180 threads.

[2] Any other three-phase electrical supply available on request.

Technical data of the UV lamp	
<i>Lamp typology:</i>	ultraviolet
<i>Lamp quantity:</i>	1
<i>Lamp power:</i>	120 W/cm
<i>Lamp max life:</i>	1500 hours
<i>Lamp height:</i>	adjustable 1000÷1500 mm
<i>Temperature on the conveyor belt³:</i>	~ 46°C

[3] Data checked with a room temperature of 20°C.

Lamp length⁴ [mm]	Installed power [kW]	Energy consumption⁵ [kW]	Overall dimensions [L x W x H]
400	5.5	3.3	1200 mm x 500 mm x 1500 mm
500	6.7	4	1300 mm x 500 mm x 1500 mm
600	7.9	4.7	1400 mm x 500 mm x 1500 mm
700	9.1	5.4	1500 mm x 500 mm x 1500 mm
800	10.3	6.1	1600 mm x 500 mm x 1500 mm
1000	12.7	7.6	1800 mm x 500 mm x 1500 mm
1200	15.1	9	2000 mm x 500 mm x 1500 mm
1400	17.5	10.5	2200 mm x 500 mm x 1500 mm
1600	19.9	11.9	2400 mm x 500 mm x 1500 mm
1800	22.3	13.3	2600 mm x 500 mm x 1500 mm
2000	24.7	14.8	2800 mm x 500 mm x 1500 mm
2200	27.1	16.2	3000 mm x 500 mm x 1500 mm

[4] Any other length available on request.

[5] We predicted a 40% energy saving.

To improve the quality of the product, the Mismatic Company can effect modifications in the manufacturing without any obligation to notify these to the Customer.

Standard features

- ❖ **UV lamp cooling system by forced air**
- ❖ **Installation of a semi-vacuum table under the conveyor belt:** the system is necessary to stretch out the material when passing under the UV lamp
- ❖ **Electronic device for energy saving New**
- ❖ **Control panel on board**