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multi-field

air-cooled ultraviolet dryer

MINI



### Description

The ultraviolet dryer has been designed and built to dry rigid and flexible sheets printed with UV inks. The equipment can be coupled with semiautomatic,  $\frac{3}{4}$  automatic and automatic screen printing machines with a production not exceeding 1800÷2000 sheets per hour.

### 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.



<b>Main technical data</b>	
<i>Dryable materials:</i>	rigid and flexible sheets as paper, cardboard, PVC, polyester, polycarbonate, plastic, Plexiglas, metal, wood, glass, etc.
<i>Min material thickness:</i>	paper from 80 g/m <sup>2</sup>
<i>Max material thickness<sup>1</sup>:</i>	25 mm
<i>Dryable inks:</i>	UV inks
<i>Max drying capacity<sup>2</sup>:</i>	1800÷2000 sheets per hour
<i>Electrical supply<sup>3</sup>:</i>	400 V 3-phase + neutral, 50 Hz
<i>Working pressure<sup>4</sup>:</i>	6÷7 bar

[1] When drying materials such as metal and glass, the maximum thickness is 10 mm.

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

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

[4] The compressor is not included.

<b>Technical data of the UV lamp</b>	
<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>Temperature on the conveyor belt<sup>5</sup>:</i>	~ 46°C

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

<b>Lamp length<sup>6</sup></b> [mm]	<b>Installed power</b> [kW]	<b>Energy consumption<sup>7</sup></b> [kW]	<b>Overall dimensions</b> [L x W x H]
400	5.7	<b>3.4</b>	2550 mm x 1150 mm x 1500 mm
500	6.9	<b>4.1</b>	2550 mm x 1250 mm x 1500 mm
600	8.1	<b>4.8</b>	2550 mm x 1350 mm x 1500 mm
700	9.3	<b>5.5</b>	2550 mm x 1450 mm x 1500 mm
800	10.5	<b>6.3</b>	3550 mm x 1550 mm x 1500 mm
1000	12.9	<b>7.7</b>	3550 mm x 1750 mm x 1500 mm
1200	15.3	<b>9.1</b>	3550 mm x 1950 mm x 1500 mm
1400	17.7	<b>10.6</b>	---- x 2150 mm x 1500 mm
1600	20.1	<b>12</b>	---- x 2350 mm x 1500 mm
1800	22.5	<b>13.5</b>	---- x 2550 mm x 1500 mm
2000	24.9	<b>14.9</b>	---- x 2750 mm x 1500 mm
2200	27.3	<b>16.3</b>	---- x 2950 mm x 1500 mm

[6] Any other length available on request.

[7] 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.

<b>Technical data of the conveyor belt<sup>8</sup></b>					
Lamp	Conveyor belt		Length of the conveyor belt		
LENGTH	WIDTH	TOTAL LENGTH	LOADING	UV ZONE	UNLOADING
400	450	2500	1000	500	1000
500	550				
600	650				
700	750	3500	1500		1500
800	850				
1000	1050				
1200	1250	----	depending on the request of the Customer	depending on the request of the Customer	
1400	1450				
1600	1650				
1800	1850				
2000	2050				
2200	2250				

[8] All the values are expressed in millimetres [mm].

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### **Standard features**

- ❖ **UV lamp cooling system by forced air**
- ❖ **Automatic open/close system of the UV zone for maintenance or inspection**
- ❖ **Safety system:** if the material stays into the dryer for a longer time than the one set, the UV lamp switches off and the UV zone opens up to prevent the material from being burned
- ❖ **Equipped with Kevlar® reinforced fibreglass conveyor belt resistant to high temperature** (max temperature 250°C)
- ❖ **Conveyor belt speed:** adjustable by control panel
- ❖ **Equipped with a semi-suction table installed under the UV zone:** this system is necessary to stretch out the material when passing under the UV lamp
- ❖ **Electronic device for energy saving New**
- ❖ **Control panel on board**



*semiautomatic screen printing machine model **ECO MATIC 819 +**  
automatic off-feeder model **LVF 819 +**  
UV dryer model **MINI***