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multi-field | **air-cooled ultraviolet dryer**

DUAL

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 automatic and cylinder screen printing machines with a production up to 3600÷4000 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.

Main technical data	
Dryable materials:	rigid and flexible sheets as paper, cardboard, PVC, polyester, polycarbonate, plastic, Plexiglas, metal, wood, glass, etc.
Min material thickness:	paper from 80 g/m^2
Max material thickness[1]:	25 mm
Dryable inks:	UV inks
Max drying capacity[2]:	3600÷4000 sheets per hour
Electrical supply[3]:	400 V 3-phase + neutral, 50 Hz
Working pressure[4]:	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.

Technical data of the UV lamps	
Lamp typology:	ultraviolet
Lamp quantity:	2
Lamp power:	120 W/cm
Lamp max life:	1500 hours
Temperature on the conveyor belt[5]:	~ 46°C

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

Lamp lenght[6] [mm]	*Installed power* [kW]	*Energy consumption[7]* [kW]	*Overall dimensions* [L x W x H]
400	10.8	**6.4**	3050 mm x 1150 mm x 1500 mm
500	13.2	**7.9**	3050 mm x 1250 mm x 1500 mm
600	15.6	**9.3**	3050 mm x 1350 mm x 1500 mm
700	18	**10.8**	3050 mm x 1450 mm x 1500 mm
800	20.4	**12.2**	4050 mm x 1550 mm x 1500 mm
1000	25.2	**15.1**	4050 mm x 1750 mm x 1500 mm
1200	30	**18**	4050 mm x 1950 mm x 1500 mm
1400	34.8	**20.8**	---- x 2150 mm x 1500 mm
1600	39.6	**23.7**	---- x 2350 mm x 1500 mm
1800	44.4	**26.6**	---- x 2550 mm x 1500 mm
2000	49.2	**29.5**	---- x 2750 mm x 1500 mm
2200	54	**32.4**	---- 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.

Technical data of the conveyor belt[8]					
Lamp	**Conveyor belt**		**Length of the conveyor belt**		
LENGTH	**WIDTH**	**TOTAL LENGTH**	**LOADING**	**UV ZONE**	**UNLOADING**
400 500 600 700	450 550 650 750	3000	1000	1000	1000
800 1000 1200	850 1050 1250	4000	1500		1500
1400 1600 1800 2000 2200	1450 1650 1850 2050 2250	----	depending on the request of the Customer		depending on the request of the Customer

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

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Standard features

- **Independent switching on/off of the UV lamps**
- **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 lamps switch 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:** the system is necessary to stretch out the material when passing under the UV lamps
- **Electronic device for energy saving** New
- **Control panel on board**