

IGT

IGT LABORATORY UV DRYERS



IGT Compact UV dryer



IGT Compact "Mini" UV dryer

Application

The compact UV (mini) dryers are continuous production units for quick hardening of UV inks and lacquers on flat material and moulded parts from paper, plastic, conductor plates, glass, metal, for small to medium size prints under normally admitted heat. In the graphic arts industry the compact UV dryers are used in the pre-press department to dry test prints for colour matching and in research & development laboratories of ink and chemical suppliers. The testers have variable conveyer belt speeds, adjustable lamp output power and exchangeable lamps.

On the tested objects the heat, drying properties and adhesion can be checked in a reproducible way close to the practical circumstances.

Two models

There are two basic models available: the IGT Compact UV dryer and the IGT Compact "Mini" dryer. The main design difference between these two models is that the IGT Compact "Mini" UV dryer does not have an integrated air exhaust and the lamp output is not adjustable. For further dimensional and technical differences: see backside of this brochure.

Design

Easy operation and easy maintenance are guaranteed by the modular system.

The UV-system is equipped with a continuous belt dryer, which is laid out for continuous operation. Power section, connection fuse, and connection cables to the power source are situated in the lamp housing. The UV-tube and the reflector are air-cooled; they have a controlled automatic post-cooling unit which works by means of a thermostat. The geometry is laid out for optimal lamp focussing and guarantees a quick hardening of the applied coating.

The frame includes driving and feed-back shafts, an idler with belt rest, PTFE glass fibre conveyor-belt and a belt suction unit (= Akti Print model). The passage can be set from 12 to 50 mm. In the standard version, the driving motor is equipped with a belt speed selector from 2 to 12 meters / minute. The idler allows quick post adjustment and replacement of the conveyor-belt. In this manner, straight travel of the belt is made sure.



TECHNICAL CHARACTERISTICS

| IGT Compact UV Dryer | IGT Compact “Mini” Dryer |
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| <p>Lamp Lamp head with air-cooled Hg lamp, 700 watts Operating voltage range 198-250 volt, 50/60 Hz The reflectors and lamp(s) are intensively air-cooled Strong, elliptic aluminium semi-reflector scales Lamp output variable 40-100 % Approximate lifetime lamp: 800 hours, (depends on use)</p> <p>Belt Can be delivered with or without belt Black teflon coated antistatic, endless glass fibre conveyor belt Variable belt speed, 3-20 m/min Secured straight travel of belt Passage width 12 cm Drying width 11 cm Belt available with length of 75 cm Integrated belt suction by means of strong exhaust blower Digital belt speed display</p> <p>CE compliant, users manual in English</p> | <p>Lamp Lamp head with air cooled Hg lamp, 500 watts or 2 lamps of 500 watts (option) Operating voltage range 198-250 volt, 50/60 Hz The reflectors and lamp(s) are intensively air-cooled Strong, elliptic aluminium semi-reflector scales Fixed lamp output Approximate lifetime lamp 800 hours, (depends on use)</p> <p>Belt Can be delivered with or without belt Black teflon coated antistatic, endless glass fibre conveyor belt Variable belt speed, 2 -12 m/min Secured straight travel of belt Passage width 12 or 18 cm Drying width 11 or 17 cm Belts available with length of 50 & 75 cm Ozone suction not necessary No belt speed display</p> <p>CE compliant, users manual in English</p> |
| L x W x H : 700 x 160 x 400 mm | L x W x H : 500 or 700 x 160 x 400 mm |
| <p>Features Very high reflector efficiency: Strong elliptic aluminium semi-reflector scales Compact model, easy to transport Passage height easily adjustable from 12 - 50 mm</p> <p>Easy to operate Quick & easy replacement of UV lamp on the reflector side Suitable for universal use and as UV reference Very narrow lamp head with quartz filter Stable performance even with fluctuating power supply</p> <p>Very short start up time including increased re-start performance Long lamp life</p> | <p>Features Very high reflector efficiency: Strong elliptic aluminium semi-reflector scales Compact model, easy to transport Passage height easily adjustable from 12 - 50 mm</p> <p>Easy to operate Quick & easy replacement of UV lamp on the reflector side Suitable for universal use and as UV reference Very narrow lamp head with quartz filter Stable performance even with fluctuating power supply</p> <p>Very short start up time including increased re-start performance Long lamp life</p> |