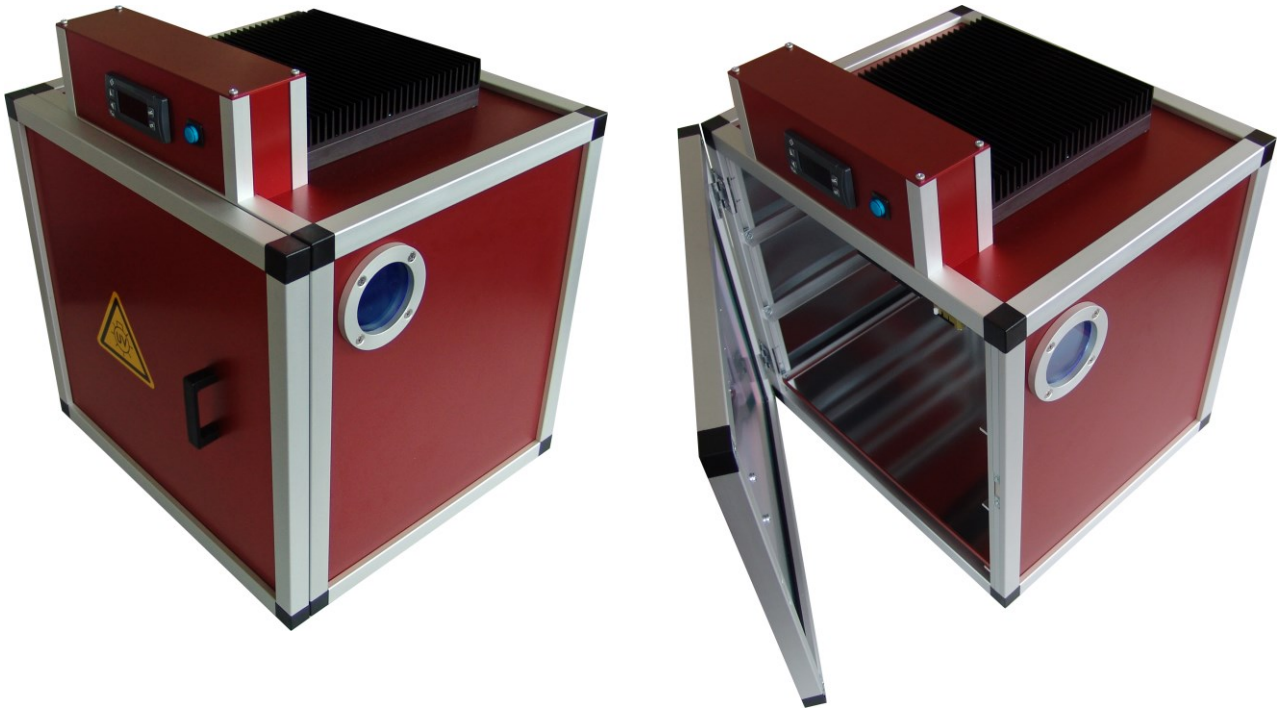
Product Information
APM LED UV Cube

APM - Product Number: 102843

UV-LED - 365 nm - Lighting Chamber
UV LED curing cabinet for UV-curing adhesives and UV-curing optical cements



APM LED UV–Cube with 365 nm

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Operating instructions

Purpose

The LED UV cabinet is fitted with two UV LED light source modules with a wavelength of 365 nm. The cabinet is used for low tension hardening of UV curing adhesive and optical cements. The temperature of the parts to be cured will remain low. This reduces the optical stress on the bonded optical parts.

Starting UV hardening

- Place the parts to be radiated as centrally as possible on the shelf
- Push the shelf into the cabinet at the top, middle or bottom
- Close the doors
- Press the blue signal button as the start button
- The blue signal button remains lit throughout the radiation process in the cabinet.
- The doors can be opened at any time, this interrupts the radiation. The radiation time continues when the doors are closed again.
- As soon as the radiation time set is complete, the blue signal light goes out.

Setting the timer

Press the Set button / use the arrow keys to set the time hr.min (0.10 = 0 hours 10 minutes)

Features

The LED UV cabinet has a robust aluminium casing and the interior is fitted with special UV reflectors. This provides consistent radiation with diffuse UV light at 365 nm. Depending on the type and application thickness, the UV adhesive can take between a few minutes and a few hours to harden. The LED UV cabinet can also be used for continuous operation without the components becoming significantly warmer.

Safety measures / warnings

- The UV light switches off as soon as the cabinet is opened.
  The safety switches must not be bypassed.
- Avoid moisture (high air humidity > 80 %, relative air humidity and water splashes)!
- Use the LED UV cabinet in rooms where the temperature is below 30 °C.

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Mains power adapter

The electrical connection is a conventional AC adapter. This AC adapter can be connected to any 110 V - 240 V / 50 V - 60 Hz alternating current socket.

Maintenance

Essentially, the device is maintenance-free. Check the safety glass on the LED UV modules weekly and clean with a little alcohol or isopropanol if necessary. Based on the requirements in the standard, the UV intensity in the cabinet needs to be checked, for example, monthly using a calibrated measuring device. The glass in the porthole can be removed by specialist personnel for calibration purposes.

Disposal

The device must not be disposed of with normal domestic waste! Please utilise the local disposal facilities (e.g. material collection points, etc.) or return to the manufacturer.

Technical specifications

Dimensions of device	Width: 380 mm Height: 460 mm Depth: 340 mm
Dimensions of shelf	Width: 330 mm Depth: 300 mm
Weight / material	Cabinet complete with UV modules: 10.0 kg AC power adapter: 1.25 kg
Wavelength	365 nm
UVA intensity (measured with APM UV measuring device at 365 nm)	12 - 15 mW / cm^2 @ 140 mm distance to top insert 8 - 10 mW / cm^2 @ 240 mm distance to middle insert 5 - 10 mW / cm^2 @ 340 mm distance to bottom insert
Power supply / connection	AC Adapter : GBACS150P-30-C14 Input: 100 – 240 VAC 50-60 Hz Output: 30 VDC / 5 A
Safety functions	Low and high voltage, high current, high temperature
Operating time	Continuous operation approved
Lighting display	Blue signal lamp is lit: Radiation Blue signal lamp is not lit: No radiation
Operating / Storage temperature	+15 °C to +30 °C / -20 °C to +50 °C
Humidity	5 % to 85 % relative humidity (non-condensing)
Optional Accessories	EIT Uvicure Plus II wireless UV measuring device

Subject to technical changes Date November 2015

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