

# UV Curing Oven

AMP LED UV-Cube II

A tall, cylindrical UV curing oven with a grey base and a clear, amber-tinted upper section. The base features a control panel with a small screen and a red emergency stop button. The top section is open, revealing a central vertical rod and a UV lamp assembly. The brand name 'Carbon' is visible on the top of the clear section and on the control panel.

**Tool Type:** "UV Oven"

**Location:** "Elings 2436"

Supervisor	Tool Lead
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**Description:** "UV curing oven"

**Manufacturer:** "AMP LED UV-Cube II"

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## About

Some Carbon Resins used in the Carbon 3D printer can benefit from post process curing. Each resin has a specific hardening curve which can be found within the reference material which will indicate the ideal time and temperature to be set on the UV curing oven.

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## Training Documentation

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## Detailed Specifications

Build Volume: 189 x 118 x 326 mm (L x W x H)

X,Y Accuracy: 75 microns

Layer Thickness: 25-100 microns

General Accuracy: up to +/- 70  $\mu\text{m}$  +1  $\mu\text{m}$  per mm dimension size

Production Repeatability: up to +/- 40  $\mu\text{m}$

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## Safety Concerns

The resin used in the Carbon 3D printer is considered hazardous. Gloves are to be worn when replacing or removing build plates, build tanks, and resin cartridges. Refer to SDS for disposal and health hazards.

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## Operating Procedures

1. Any part to be cured needs to be washed in the FormWash with IPA BEFORE being placed in the form cure.
2. Supports can be removed before or after curing process.
3. Wait 30 minutes after washing to allow all remaining IPA to evaporate
4. Check the reference material for selected resin to determine ideal time and temperature for curing
5. Use the dial on the front of the FormCure to set time and temperature
6. Place part within the FormCure→ press start.

# Reference Documentation

carbonresinguide.pdf

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Last update: **2022/05/27 21:40**

