dentalfarm
DENTAL EQUIPMENT SINCE 1972

# A5408V PHOTOPOL

## VACUUM POST-CURING UNIT FOR 3D BIOMEDICAL RESINS


| | |
|---|---|
| Product group | **LED curing unit engineered for the post-curing of elements created by means of 3D printing** |
| Main features | ⇒ Light-curing unit developed for the post-curing of elements created by means of 3D printers (DLP-STL) with 3D resins sensitive to UV light<br>⇒ Ideal combination of LEDs in different colours which emit ultraviolet rays in the most suitable spectrum range to activate the chemical reaction with photo-activators<br>⇒ The 6 circuits à 8 LEDs each are placed in such a way to cover uniformily the whole working area (4 on the circumference, 2 on the lower side)<br>⇒ Special optical reflectors concentrate the light emitted by any 8-LEDs set with the aim to intensify the irradiation effect thus considerably increasing efficiency<br>⇒ The flask is made of hi-quality glass and it is completely transaparent to allow the light to pass through whilst isolating at same time the working area from any radiation sources<br>⇒ The peculiar structure of the flask allows for easy access and cleaning<br>⇒ The lid provides for side rotation assuring full opening and it is further fitted at the inside with reflecting panel<br>⇒ HW – electronic control circuit with touch-screen full-colour display<br>⇒ Simple and intuitive SW showing in a logical sequence all parameters necessary to the setting of the cycles suitable for the most different procedures<br>⇒ Storage of the program with quick recall option<br>⇒ Possibility to carry out light-curing operations with no oxygen (under vacuum) and under inert atmosphere (Nitrogen gas), identified as the most ideal conditions to assure the biocompatibility of treated elements as expressly required by most 3D resins manufacturers.<br>⇒ Ability to store various programs to allow a quick recall<br>⇒ Extremely compact design: both the pump, the glass bell-jar and the vacuum gauge are all built-in and come with the unit. |

| | |
|---|---|
| UV lighting sources | 6 circuits à 8 LEDs each (High-power SMD) operating spectrum ranging between 320nm and 450mn, positioned and focused on the geometric centre of the working chamber |
| Irradiation power mW/cm$^2$ | 485 |
| Available programs | 100 |
| Vacuum pump | Piston-operated dry pump - 230v AC 50/60 Hz |
| Vacuum level | 720 mmHg |
| Pump rate | 40 l/min |
| Line voltage | 230v AC - 50/60 Hz |
| Absorption W | 500 |
| Fuse Amp | 6.3 |
| Width mm | 400 – 450 inclusive of connections |
| Depth mm | 430 |
| Height mm | 240 |
| Net weight kg | 14.6 |
| Gross weight kg | 17.0 |
| Inert gas connection | Nitrogen N2 – 6x6 piping – adjustable flow |
| Inert gas consumption | Approx. 2 liters/cycle |
| Flask internal size mm | ∅ 135 x 90h |
| Max size of gas treated element mm | ∅ 130 x 70h |
| Max size of element under vacuum mm | ∅ 130 x 70h |