

Ozone Cleaner

UVO Cleaner, model 42-220, Jetlight Co. Inc.



UV+O (atomic oxygen) cleaning method is a photosensitized oxidation process in which the contaminant molecules of photo-resists, resins, human skin oils, cleaning solvent residues, silicone oils, and flux are excited and/or dissociated by the absorption of short-wavelength UV radiation. Atomic oxygen is simultaneously generated when molecular oxygen is dissociated by 184.9nm and ozone by 253.7nm.

The UVO-Cleaner is a safe and effective method of removing organic contaminants from silicon, gallium arsenide, quartz, sapphire, glass, mica, ceramics, metals, and conductive polyimide cements, enabling further modification of different surfaces in subsequent steps.

Sample activation is done in one easy step: sample is placed in the tray with the side that is to be activated facing upwards towards the lamp. Tray is closed and the activation time is set on the interface (depending on sample type). Irradiation is started using the "Start"-button, once the process is done the sample tray can be opened and the sample can be removed.

Specifications

Outside	35.0 x 22.0 x 22.5 cm, Ø 5.08 cm Exhaust
Sample Tray	16.5 x 16.5 x 3.80 cm
Grid Lamp	Low pressure mercure vapor, 28 – 32 mW/cm ²
Electric Output	6000 V (peak-peak), 30 mA

Manual:

https://www.jelight.com/wp-content/uploads/2021/06/Model_42_d.pdf