

SC-UV-III

HIGH-POWER BATCH UV-OZONE CLEANER

The SC-UV-III is an industrial-scale high-throughput UV-Ozone cleaning system equipped with a 1,000 W dual-band ultraviolet output (185 nm and 254 nm). Built with an expansive 760 mm × 760 mm drawer-type sample stage, it is engineered for heavy-duty batch processing and large-format glass or wafer substrate cleaning.



AT A GLANCE

Platform Area **760 × 760 mm**

Wavelengths **185nm & 254nm**

Lamp Power **1,000 W**

Gas Channel **Reserved Inlet**

System Weight **250 kg**

Expanded Platform Stage

Features a heavy-duty, drawer-type loading platform measuring 760 mm × 760 mm, supporting multi-wafer batch loading configurations.

1,000 W Dual-Band Lamps

Utilizes a high-capacity 1,000 W dual-wavelength low-pressure mercury lamp array to maximize photo-oxidation rates and chemical bond breakdown.

Lid-Switch Safety Protection

Equipped with active mechanical interlocks that automatically disable high-power light tubes when the tray compartment is accessed.

Stainless Steel Construction

The entire internal structure is made of heavy-duty stainless steel to prevent oxidation and acid-alkali chemical degradation.

Technical Specifications

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| Process capabilities & Optics | |
| Cleaning Bands | 185 nm and 254 nm |
| Lamp Tube Type / Power | Dual-wavelength low-pressure mercury lamp / 1000 W |
| Average Light Intensity | 28~32 mW/cm ² (at 3-5 mm from UV Lamp) |
| Irradiation Area / Distance | Platform size: 760 mm × 760 mm / 0 – 20 mm (Adjustable) |
| Tray Outer Dimension | 760 mm (L) × 760m (D) |
| Structure & Safety Controls | |
| Material & Structure | Stainless steel cabinet (acid, alkali & corrosion-proof) / Drawer-style sample stage |
| Gas Path Interface | Reserved inlet interface to support extended cleaning function expansion |
| Safety Protection | Interlock between drawer opening/closing and UV lamp operation (prevents UV radiation hazards) |
| Timing Control / Operation | Digital button timer with digital countdown display / Manual termination supported |
| Optional Accessories / Heating Range | Optional ozone neutralizer / Room temperature - 200°C |
| Power & Facilities | |
| Inlet/Outlet Ports | Inlet: φ8 mm, Outlet: φ50 mm |
| Power Supply (UV Cleaner) | AC 220V Standard / AC 110V Optional (1000 W) |
| Facilities & Mechanical Data | |
| Outer Dimensions (Excluding Neutralizer) | Length (930 mm) × Width (905 mm) × Height (685 mm) |
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| Product Weight | 250 KG |
| Warranty Period | 1 Year |

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