

UV Airclean Workstation Large With UV Air Recirculator

Description

It is known that UV light causes damage to nucleic acids. Irradiation with hard UV light (254 nm) in the UV Airclean Workstation is sufficient to prevent the unwanted amplification of DNA contamination.

The model is a table-top unit with real glass panes, a metal frame and a stainless steel work surface.

The combination of special reflectors and strong UV sources triggers pyrimidine dimers and other light damage in the contaminating DNA. As a result, the nucleic acids can no longer be amplified.

After completion of the work, any contaminated surfaces are decontaminated by the indoor UV recirculator.

The UV-Airclean is equipped with an open UV lamp installed in the top of the hood.

The radiation from the open UV lamp disinfects the work area by deactivating the DNA/RNA fragments during the 15 to 30 minute exposure. exposure.

A digital timer controls the duration of direct UV radiation. A daylight lamp provides adequate illumination of the work surface.



UV-Airclean Large
Order No.: 112.0019



Optional: T-4L table with drawer and castors.
Order No.: 112.0051

UV Recirculator

The UV-Airclean is equipped with a special bactericidal UV recirculator. This provides constant air decontamination inside during operation and can be switched on as needed.

UV-Airclean is recommended for working with DNA/RNA amplicons.

Consisting of a UV lamp, a fan, and a dust filter, the UV recirculator is housed in a special compartment. This protects the operator from UV light while working with the UV-Airclean.

The recirculator increases the maximum UV light density and is therefore sufficiently effective for DNA/RNA inactivation.

The UV recirculator processes 100 UV volumes per hour, thus continuously creating aseptic working conditions inside the UV cleaning box.

Specifications

- Ozone-free, high-density UV decontamination
- Long-life UV lamps (9,000 hours on average)
- Automatic UV switch-off when opened
- Strong UV radiation (25 watts)
- Integrated white light tube for even illumination of the work surface
- Bactericidal UV recirculator for permanent decontamination of the interior during operation
- Impact-resistant glass walls
- Low noise and energy consumption
- Optional: Underframe with drawer
Art. no. 112.0051 (delivery not assembled)
- Further accessories see page 3

UV Airclean Workstation / Large

Special Feature

1. Touchscreen interface Faster, more intuitive controls

The newly introduced digital touchscreen simplifies cabinet operation by allowing users to:

- Quickly set up decontamination programs.
- Access all essential settings in a single menu.
- Monitor UV lamp life and usage, ensuring timely replacements.
- Gain easy access to the user manual and order form for consumables through QR-codes.

This update reduces setup time, enhances workflow efficiency, and minimizes operational errors.

2. Advanced UV-C decontamination Maximum protection

The UV Airclean utilize powerful UV-C lamps for workspace sterilization, preventing contamination of sensitive PCR samples.

Key decontamination features include:

- High-Intensity UV lamps – UV-C lamps ensure efficient sterilization of surfaces before and after use.
- UV-Recirculator – Ensures continuous air purification to prevent sample cross-contamination during PCR setup (can be activated if needed).
- Programmable Timer – Allows users to schedule decontamination cycles for maximum efficiency.

3. Energy saving 8-Watt LED daylight lamp Improved illumination & lower energy use

The new 8W LED daylight lamps provide bright and consistent lighting delivering approximately 1400 lux while reducing energy consumption by 50% compared to traditional lamps.

Benefits include:

- Longer lifespan than standard fluorescent bulbs
- Cooler operation, reducing heat buildup in the workspace
- Improved energy efficiency, lowering power consumption and costs



UV Airclean Workstation with digital control module

4. UV lamp life timer Smart preventive maintenance

A UV lamp life tracking system, accessible via the touchscreen display, allows users to monitor lamp usage and schedule timely replacements, preventing unexpected failures and ensuring consistent and efficient sterilization performance.

5. QR-Code access Instant support and documentation

Each UV Airclean now features QR codes on the user interface, allowing instant access to:

- User manuals
- Consumable product codes
- Maintenance and troubleshooting guides

This feature simplifies maintenance and ensures that users can quickly find relevant information without searching through physical documents.

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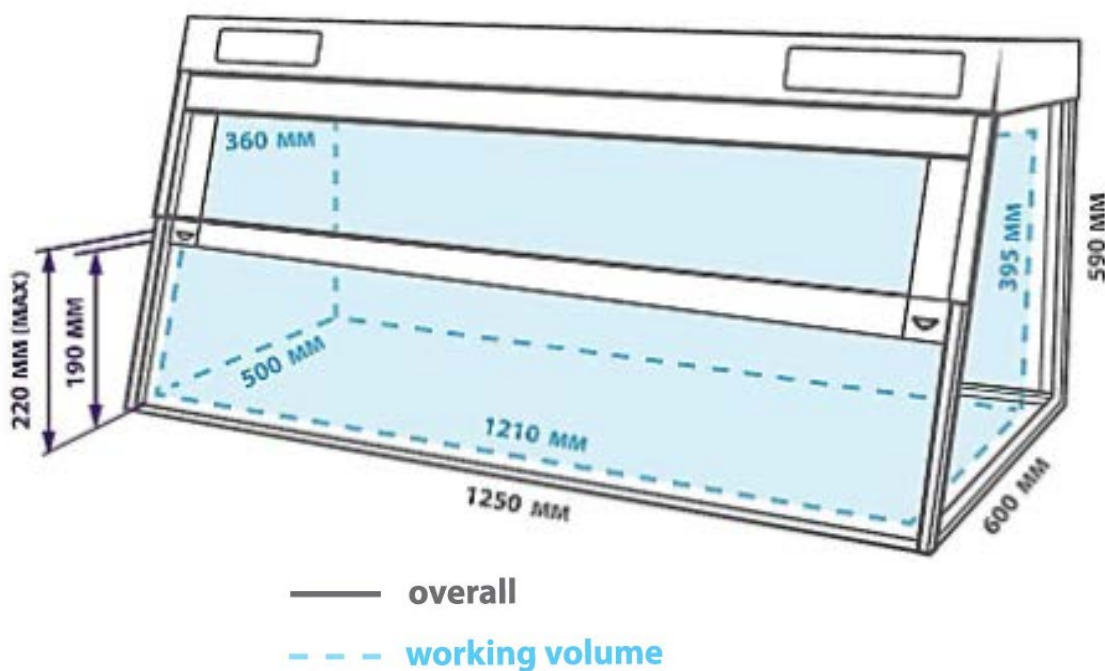


Technical Data

Order No. UV Airclean Large	112.0019
Dimensions	1250 x 600 x 590 mm
Working area	1210 x 500 mm
Opening dimensions (fully raised protective screen)	1210 x 190 mm
Weight (netto / brutto)	58 kg / 68.5 kg
Open UV-Lamp	2 x 30 W, built-in bactericidal UV-C, TUV 30 W 1SL/25
Radiation type	UV ($\lambda = 253.7 \text{ nm}$), ozone-free
UV Recirculator	1 x 30 W (efficiency > 99 % per 1 hour)
Daylight lamp (for working area illumination)	1 x TLD-30 W
Material walls, glas type	Back cover: stainless steel, front (8 mm) and sides (4 mm): glas (EUROGLASS, Germany)
Working area material	Stainless steel
Front screen in 3 steps adjustable	60 mm / 125 mm / 190 mm
UV radiation level	18 mW / cm ² / s
Digital time setting of direct UV exposure	0 – 24 hrs/ non-stop (increment 1 min)
UV-recirculator	1 x 30 W (efficiency >99% pro 1 hour)
Daylight lamp (for working area illumination)	1 x TLD-30 W
Optical transmission	95 %
UV protection	>96%, UV protection film
Safety features	Automatic open UV lamp switch off when screen is open
Power outlets inside the unit	3 Built-in sockets max. 1000 W and inlet for power cords
Power	135 W
Nominal operating voltage	100 - 240 V, 50/60 Hz

UV Airclean Workstation Large With UV Air Recirculator

Schematic View



Accessories*

Model / Shelf	Description	Dimensions	Order No.
F-1 	Straight universal shelf for decontaminated storage of samples, reagents and small instruments above the work area. The shelves are made of transparent acrylic glass (PMMA) and ensure easy assembly and disassembly.	400 x 140 x 50 mm	112.0055
P-5 	Holds up to 5 mechanical laboratory pipettes in vertical position above the work area.	230 x 140 x 50 mm	112.0056

*Only compatible with devices from year of manufacture 2021