

UVP PCR Workstation / HEPA



UV PCR Workstation / HEPA



Main Features

- 254nm UV irradiation to achieve efficient decontamination
- Easy-clean antimicrobial coating on the stainless steel and aluminum surfaces doubles up the attack on PCR contaminants
- Safety shut-off switch automatically turns the UV light off when door is opened
- Makrolon® panels block all UV light below 400nm
- Built-in power outlets for operation of equipment inside the Workstation
- Touchscreen interface to control all system functions
- Choice of HEPA or non-HEPA system configurations based on customer needs

HEPA models only:

- 3 layers of UV irradiation + air filtration/ circulation to ensure maximum decontamination:
 - Carbon pre filter with long-life UV
 - HEPA filter with standard UV lamps and
 - Recirculator with long-life UV
- Unique folding assembly that takes as little as 10 minutes
- Quick and easy filter and lamp replacement as well as service

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Description

The combination of short-wave UV radiation and antimicrobial metal surfaces considerably reduce the risk of PCR contamination.



With all models the UV lamps are automatically switched off as soon as the hood of the workstation is opened and Makrolon® sheets block all UV radiation up to 400 nm.

Technical Data

Model	UVP PCR Workstation	UVP PCR Workstation HEPA
Order No.	112.0042	112.0041
UV sources (254 nm)	Inside the work area Air recirculator at the bottom	Pre-filter chamber Inside the work area Air recirculator at the bottom
UV safety	UV shut-off switches located in all chambers Red LED ambient light to indicate UV on	
White light	Overhead white LED lights brightly illuminate the work area	
Filter module	no filter	2-stage filter module: Carbon pre-filter, HEPA filter
Timer	15 minutes, 30 minutes, custom (up to 99 minutes)	
Power outlets	2	
Shelves	2	
Work surface	Antimicrobial coated stainless steel and aluminum	
Dimensions exterior (W x D x H)	826 x 616 x 991 mm	
Dimensions interior (W x D x H)	787 x 546 x 737 mm	
Weight	53 kg	58 kg

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For all Contamination-Sensitive Applications

Researchers who work with PCR technologies, must ensure an effective protection against the unintended transfer of nucleic acids. UVP PCR Workstations are exceptionally equipped to provide systemic protection against such transfers.

High Efficiency UV Decontamination

All UVP PCR Workstations create an ideal environment for preparing PCR master mixes and other reactions by reducing any possible sample contamination. UV irradiation by means of the built-in 254 nm UV lamps significantly reduces surface and airborne contaminants in the chamber and maintains a clean work area to minimize repeat experiments and save time. The hoods include a timer to control UV decontamination of the chamber by simply setting the desired time. All systems feature a safety shut-off switch, which automatically turns the UV light off when the door is opened, protecting users from UV exposure.

Perfect Antimicrobial Protection

Additional contamination control is provided with a coated stainless steel and aluminum design that maintains antimicrobial efficacy. The durable coating material is a safe and natural agent for continuous protection that suppresses the growth of bacteria, molds and fungi on surfaces.

Efficient Work Area

UVP PCR Workstations are designed for placement of large instruments on the work area or small items on the removable shelves. Overhead white light brightly illuminates the work area and built-in power outlets allow operation of additional equipment within the chamber.



Model with HEPA Filter: Maximum and Continuous Decontamination

3-Stage HEPA Filtration

The HEPA workstations are equipped with a two-piece filter module with built-in short-wave 254 nm UV light source. Filtered and decontaminated air circulates constantly in the chamber.

1st stage: Carbon pre-filter on the side

2nd stage: HEPA filter on the top

An access door inside the workspace provides easy access for changing the HEPA filter when indicated by the status light on the touch screen control panel. Another access door on the side allows easy replacement of the pre-filter.

3rd stage: Recirculator in the lower working area

This recirculates the HEPA filtered air to ensure continuous decontamination of the entire air volume in the working area.

This is a user-defined function and can be switched on and off as required. Each of these air filter/circulation chambers is equipped with a built-in UV light source that decontaminates the air during filtration or circulation. The PCR workstations (non-HEPA models) only have the recirculator.

All systems are equipped with UV safety switches to ensure complete UV protection.