

PCR UV Cabinets and Workstations

Ideal for your sample preparation

- Up to 3 shortwave UV light sources
- With or without three-stage HEPA filter
- Different sizes to meet each individual need



PCR UV Cabinets and Workstations

Systematic protection against contamination

Those who work with PCR technologies, must ensure an effective protection against the unintended transfer of nucleic acids. Analytik Jena offers a complete line of UV PCR systems, which offer excellent performance: The combination of short-wave UV radiation and antimicrobial metal surfaces reduce the risk of PCR contamination considerably.

In addition to standard PCR UV² models, the PCR UV³ HEPA systems with integrated three-stage filters are available. The equipment allows efficient use of laboratory space and ensures an exceptionally productive workplace that is suitable for a variety of activities - eg for sample preparation, separation of nucleic acid and PCR or real-time PCR setup.

Features

- Up to three built-in shortwave (254 nm) UV tubes for decontamination between experiments
- Timer sets UV exposure up to 12 h
- Safety shut-off switch automatically turns the UV light off when door is opened
- Keylock prevents accidental exposure of samples to UV
- Unique, easy-clean antimicrobial coating on the stainless steel and aluminum surfaces
- Hinged door flips up for easy access to the work area
- Built-in power outlets for operation of equipment inside the work area
- Two shelves allow placement of small equipment
- MAKROLON® panels block UV below 400 nm
- With or without three-stage HEPA filter
- Different sizes: Cabinet or Workstation to meet each individual need



PCR UV² Cabinet & Workstation

Two styles are available: The standard PCR UV and the PCR UV HEPA systems.

Two sizes are available: The cabinet features a smaller work area than the workstation.

High efficient UV decontamination

All PCR UV Cabinets and Workstations create an ideal environment for preparing PCR master mixes and other reactions by reducing any possible sample contamination significantly by the built-in 254 nm UV tubes for inactivation of DNA / RNA between experiments.

Thereby, the use of UV irradiation is a reliable standard laboratory practice and reduces surface and airborne contaminants in the chamber. Maintain a clean work area to save time and reduce the repeat experiments.

The hoods include a timer to control UV decontamination of the chamber, by simply setting the desired time. A key operates the UV providing a means for preventing accidental UV irradiation of samples.

Both types feature a safety shut-off switch, which automatically turns the UV light off when the door is opened, protecting users from UV exposure.

- Decontaminate apparatus and reagents within minutes
- Integrated timer to set UV irradiation from 5 min up to 12 h
- Important features for user and sample protection

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. Resultant the easy-clean surface is stain as well as fingerprint resistant and suppresses the growth of bacteria, molds and fungi on surfaces.

Efficient work area

PCR UV systems are designed for placement of large instruments on the work area or small items on the two removable shelves. Overhead white light brightly illuminates the work area and up to four built-in power outlets allow operation of additional equipment within the chamber. Furthermore the non-ventilated, circulation free chamber limits exposure of equipment to an open lab environment.

Cabinets and larger workstations sizes are available for both the PCR UV² and UV³ HEPA styles.



PCR UV³ HEPA Cabinet & Workstation

Sophisticated platform for any sample preparation

All Analytik Jena Cabinets and Workstations combine a whole slew of important features for contamination-sensitive applications:

- 1** | Three-stage filter system:
 - Pre-filter
 - Carbon-filter
 - HEPA Filter
 - Plus UV to decontaminate
- 2** | Antimicrobial coated surface prevents contamination
- 3** | MAKROLON® panels blocks UV below 400 nm
- 4** | Built-in power outlets for operating equipment inside
- 5** | Large working area
- 6** | Power switches are conveniently located
- 7** | UV timer
- 8** | UV lock prevents accidental UV exposure of samples
- 9** | Shortwave 254 nm UV light for decontaminating the chamber
- 10** | Two removable shelves for placement of small objects
- 11** | Door flips open for easy access to interior; UV shuts off when door is open

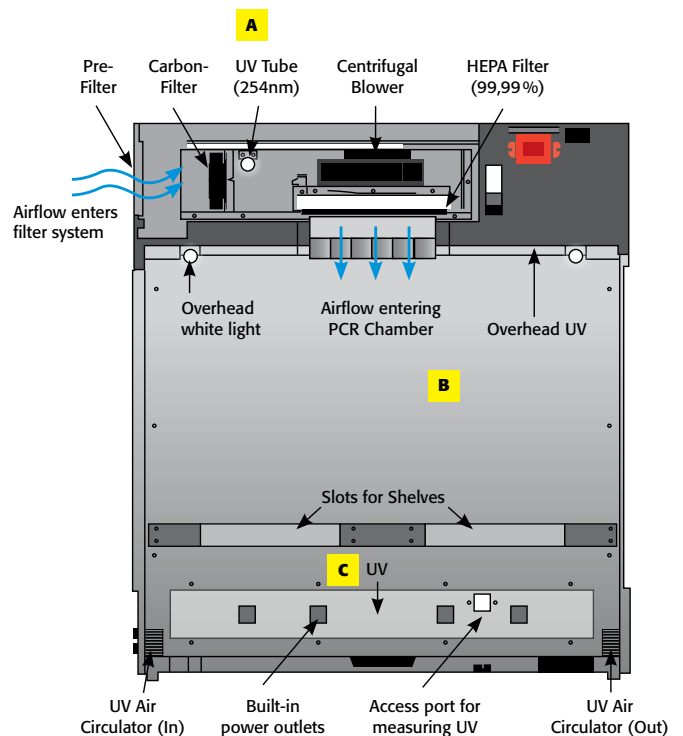
PCR UV³ HEPA feature

Next to all specifications noted above the PCR UV³ Cabinet & Workstation also include a three-stage filter module with built-in 254 nm shortwave UV light source. The system circulates filtered and decontaminated air into the PCR chamber. This positive pressure laminar flow can be set to high or low, whereby a honeycomb metal grid guarantees a stabilized air flow.

- Pre-filter helps to preserve the life of other filters by capturing large dust particles
- Activated carbon filter specializes in capturing ozone, gases, odors and smoke
- HEPA filter provides a barrier (99.99%) against dust, bacteria and mold down to 0.3 microns

A side access with a slide out design makes changing filters and UV tube easy. Protection is given due to the automatic safety switch, which shuts UV off when the side door is opened.

The PCR UV³ HEPA drawing (below) front cut-out view demonstrates the air flow through the filter module. These models supply three UV sources (UV³) which are indicated in the drawing: filter area (A), chamber (B) and UV/air circulator (C).



PCR UV³ HEPA drawing

Technical data

	PCR UV ²		PCR UV ³ HEPA	
	Cabinet	Workstation	Cabinet	Workstation
UV source	<ul style="list-style-type: none"> Two 254 nm shortwave UV sources Chamber and UV/air circulator 		<ul style="list-style-type: none"> Three 254 nm shortwave UV sources Chamber, UV/air circulator and filter module 	
White light	Overhead white light brightly illuminates the work area			
Three-stage filter module	-	-	<ul style="list-style-type: none"> Pre-filter Carbon filter HEPA filter 	<ul style="list-style-type: none"> Pre-filter Carbon filter HEPA filter
Power outlets	2	4	2	4
Shelves	2	2	2	2
Design	Antimicrobial coated aluminum			
Dimensions	222 x 102 mm	330 x 107 mm	222 x 102 mm	330 x 107 mm
Timer	UV timer	UV timer	UV timer	UV timer
Adjustment 1	5 – 60 minutes in increments of 5 minutes			
Adjustment 2	1 – 12 hours in increments of 15 minutes			
Safety shut off	Automatic switch off of ultraviolet light, when door is opened			
Design	Stainless steel, aluminum and MAKROLON®			
Interior	<ul style="list-style-type: none"> Uniquely coated stainless steel and aluminum design and easy-clean surface Durable coating material contains silver ions: <ol style="list-style-type: none"> Providing continuous antimicrobial protection Stain and fingerprint resistant Listed by Food and Drug Administration (FDA) and Environmental Protection Agency (EPA) as an antimicrobial agent Suppresses growth of bacteria, molds and fungi on surfaces 			
Interior	Aluminum powder coated			
Door and side panel	MAKROLON® panels block wavelength below 400 nm			
Dimensions	(W x D x H)	(W x D x H)	(W x D x H)	(W x D x H)
Exterior [mm]	544 x 610 x (729)	737 x 610 x (729)	544 x 610 x (826)	737 x 610 x (826)
Interior [mm]	500 x 544	706 x 544	500 x 544	706 x 544
Weight [kg]	40.8 kg	46.7 kg	57.6 kg	63.5 kg

MAKROLON® is a registered trademark of Bayer AG

Order information

Order number	Description	Order number	Description
849-00001-02	PCR UV ² Cabinet, 230 V (UK plug)	849-00005-02	PCR UV ² Workstation, 230 V (UK plug)
849-00001-03	PCR UV ² Cabinet, 230 V (Euro plug)	849-00005-03	PCR UV ² Workstation, 230 V (Euro plug)
849-00001-04	PCR UV ² Cabinet, 115 V (US plug)	849-00005-04	PCR UV ² Workstation, 115 V (US plug)
849-00001-05	PCR UV ² Cabinet, 100 V (US plug)	849-00005-05	PCR UV ² Workstation, 100 V (US plug)
849-00002-02	PCR UV ³ HEPA Cabinet, 230 V (UK plug)	849-00006-02	PCR UV ³ HEPA Workstation, 230 V (UK plug)
849-00002-03	PCR UV ³ HEPA Cabinet, 230 V (Euro plug)	849-00006-03	PCR UV ³ HEPA Workstation, 230 V (Euro plug)
849-00002-04	PCR UV ³ HEPA Cabinet, 115 V (US plug)	849-00006-04	PCR UV ³ HEPA Workstation, 115 V (US plug)
849-00002-05	PCR UV ³ HEPA Cabinet, 100 V (US plug)	849-00006-05	PCR UV ³ HEPA Workstation, 100 V (US plug)