

# PCR SYSTEMS

## UV PCR Cabinets and Workstations

PCR systems use shortwave ultraviolet to control PCR contamination. In addition to standard UV Sterilizing PCR models, HEPA/UV PCR systems with four-stage filters are available. Both the HEPA/UV and the

standard UV Sterilizing PCR Systems are available in two sizes, Cabinet and Workstation. The Cabinet has a smaller footprint than the Workstation.

Shortwave 254nm UV and antimicrobial coated stainless steel to control contamination

All PCR equipment include the following features:

- Built-in shortwave (254nm) UV tubes for deactivation of DNA between experiments
- 30-minute timer sterilizes apparatus and chamber with the shortwave UV between experiments
- Safety shut-off switch automatically turns the ultraviolet light off when the door is opened
- Keylock prevents accidental exposure of samples to UV
- Easy-clean antimicrobial coating on the stainless steel resists bacteria growth
- Hinged door flips up for easy access to the work area
- Built-in power outlets for operation of equipment inside the PCR work area
- Two shelves for placement of small equipment
- Dual acrylic panels block UV below 400nm



**UV PCR Workstation** shown. Smaller footprint, UV PCR Cabinet also available.

**UV Sterilization.** All UVP PCR systems create an ideal environment for PCR preparation by reducing the chance of sample contamination. Control potential PCR contamination with 254nm UV tubes built into the chamber. UV2 models feature both overhead UV and built-in UV air recirculator for continuous sterilization.

**Antimicrobial Protection.** Additional contamination control is provided with a uniquely coated stainless steel design that maintains antimicrobial efficacy. The easy clean, durable coating material contains silver ions, a safe and natural antimicrobial agent for continuous antimicrobial protection.

### UV PCR Ordering Information

UV Sterilizing PCR Cabinet*	UV2 Sterilizing PCR Cabinet*	UV Sterilizing PCR Workstation*	UV2 Sterilizing PCR Workstation*
95-0437-01 (115V) 95-0437-02 (230V) UK 95-0437-04 (230V) Euro	95-0436-01 (115V) 95-0436-02 (230V) UK 95-0436-04 (230V) Euro	95-0367-01 (115V) 95-0367-02 (230V) UK 95-0367-04 (230V) Euro	95-0439-01 (115V) 95-0439-02 (230V) UK 95-0439-04 (230V) Euro
<b>Light Sources</b> 254nm UV: Chamber	<b>Light Sources</b> 254nm UV: Chamber UV/air circulator	<b>Light Sources</b> 254nm UV: Chamber	<b>Light Sources</b> 254nm UV: Chamber UV/air circulator
<b>White Light:</b> Chamber	<b>White Light:</b> Chamber	<b>White Light:</b> Chamber	<b>White Light:</b> Chamber
Two power outlets Two small shelves UV Timer (≤ 30 min.) Antimicrobial coated stainless steel Acrylic panels block below 400nm	Two power outlets Two small shelves UV Timer (≤ 30 min.) Antimicrobial coated stainless steel Acrylic panels block below 400nm	Four power outlets Two shelves UV Timer (≤ 30 min.) Antimicrobial coated stainless steel Acrylic panels block below 400nm	Four power outlets Two shelves UV Timer (≤ 30 min.) Antimicrobial coated stainless steel Acrylic panels block below 400nm
<b>Dimensions HWD:</b> 28.7 x 21.4 x 24 in. (729 x 544 x 610mm)	<b>Dimensions HWD:</b> 28.7 x 21.4 x 24 in. (729 x 544 x 610mm)	<b>Dimensions HWD:</b> 28.7 x 29 x 24 in. (729 x 737 x 610mm)	<b>Dimensions HWD:</b> 28.7 x 29 x 24 in. (729 x 737 x 610mm)



**Optional PCR table** features two rigid and two adjustable, locking casters. Antimicrobial coated stainless steel reduces bacterial growth. The table accommodates all UVP PCR cabinets and workstations.

**PCR Table**

98-0077-01

\*Assembly required.

# EPA/UV PCR Cabinets and Workstations

Unique HEPA equipment provides maximum contamination control with filtered and sterilized air treated by the HEPA/UV system which blows into the PCR chamber. The systems feature HEPA filters, three UV sources and antimicrobial coated stainless steel.

The UV/HEPA units feature four-stage filters:

1. Pre-filter helps to preserve the life of other filters by capturing large dust particles
2. Carbon-filter removes ozone, gases, odor and smoke
3. HEPA-filter provides a barrier (99.99%) against dust, bacterial and mold down to 0.3 micron particles
4. ZerOzone ozone catalyst grid reduces significant amounts of ozone, minimizing the degrading effects of ozone on microarray data. The catalyst grid supplies a gentle airflow onto the sample work area. This airflow creates a working environment that helps to block entry of unwanted contaminants onto PCR samples

HEPA duct features antimicrobial coated stainless steel that resists bacteria growth

Side access with a slide out design makes changing filters and UV tube easy

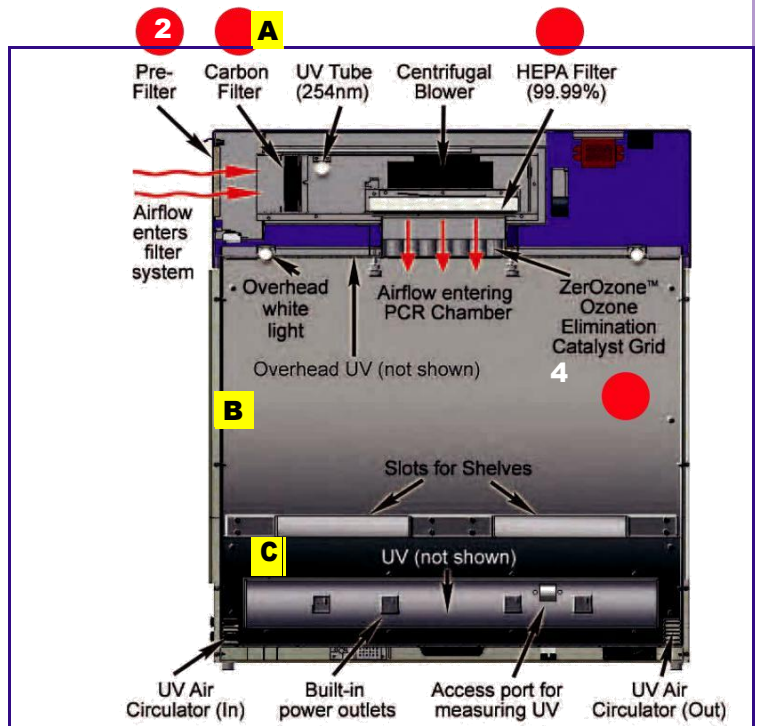
Duct includes a shortwave (254nm) ultraviolet tube for eliminating airborne microbes



**UV3 HEPA PCR Systems** (workstation shown) feature four stage filters, antimicrobial coated stainless steel and shortwave UV.

The UV3 HEPA PCR drawing below (front cut-out view) demonstrates the air flow through the filter system.

Only UVP provides three UV sources (UV3) which are indicated in the drawing below: filter area (A), chamber (B) and UV/air circulator (C).



**UV Intensity Measurements.** As UV tubes age, the intensity and germicidal destruction rates decrease. The lower the tube intensity, the longer the tubes must be illuminated to accomplish the same objective. See page 14 for UV intensity meters.

UV/HEPA PCR Ordering Information	
<b>UV3 HEPA PCR Cabinet*</b>	<b>UV3 HEPA PCR Workstation*</b>
95-0434-01 (115V) 95-0434-02 (230V) UK 95-0434-04 (230V) Euro	95-0438-01 (115V) 95-0438-02 (230V) UK 95-0438-04 (230V) Euro
<b>Light Sources</b> <b>254nm UV:</b> Filter area Chamber UV/air circulator	<b>Light Sources</b> <b>254nm UV:</b> Filter area Chamber UV/air circulator
<b>White Light:</b> Chamber	<b>White Light:</b> Chamber
<b>Four stage filters:</b> Pre-filter Carbon filter HEPA filter ZerOzone catalyst grid	<b>Four stage filters:</b> Pre-filter Carbon filter HEPA filter ZerOzone catalyst grid
<b>Features include:</b> Two power outlets Two small shelves UV timer (≤ 30 min.) Antimicrobial coated stainless steel Acrylic panels block below 400nm	<b>Features include:</b> Four power outlets Two shelves UV timer (≤ 30 min.) Antimicrobial coated stainless steel Acrylic panels block below 400nm
Dimensions H 32.5 x 21.4 x 24 in. (826 x 544 x 610mm)	32.5 x 29 x 24 in. (826 x 737 x 610mm)

\*Assembly required.

