

# SYNGENE AIRCLEAN SYSTEMS

## PCR WORKSTATIONS, DEAD AIR BOXES, LAMINAR FLOW HOODS



## PCR Workstation

Combination PCR Workstations have a built-in 254nm ultraviolet light that allows the operator to irradiate tubes, flasks and pipettes between amplifications. Clean, class 100/ISO 5 laminar flow air prevents outside contaminants from entering into the work area during manipulation. The 254nm UV light will effectively destroy potentially contaminating DNA and RNA within minutes. UVTect™ microprocessor controls monitors UV bulb and HEPA filter effectiveness.



### Unique safety features

- **Clear polycarbonate construction reflects harmful 254nm ultraviolet light**
- **Safety switch prevents opening workstation when UV light is illuminated**
- **Overlapping continuous design prevents leakage of 254nm ultraviolet light**
- **Constant monitoring of UV light source for effectiveness**

### Standard features

- **UVTect™ microprocessor controller with HEPA filtration monitoring**
- **Class 100/ISO 5 vertical laminar flow air**
- **Polycarbonate and polypropylene design to reflect UV energy**
- **Full access folding sash with safety switch**
- **Unibody plastic design - no joints or gaps in construction**
- **Digital UV light timer (0-59 minutes)**
- **Lab event timer**
- **UV shelf with built-in pipettor holder**
- **Slip-hatch utility access port**
- **Available in 32" and 48" wide; nominal depth 24", 220AC**
- **Shipped fully assembled**

External Dimensions				
	SYN-32PWLF-E	SYN-32PWTLF-E	SYN-48PWLF-E	SYN-48PWTLF-E
Width	32"	32"	48"	48"
Depth	24"	24"	24"	24"
Height	30"	39"	32"	42"

## Dead Air Box

AirClean® Systems dead air boxes provide a circulation-free environment for the amplification and manipulation of DNA/RNA. Each dead air box is standard with UVtect Microprocessor controller and a 254nm ultraviolet light source for irradiation between amplifications. A safety interlock switch disables the UV light when the sash is raised, preventing operator exposure. Seamless design and UV-reflective construction materials further ensure no harmful UV energy escapes the enclosure.



### Unique safety features

- UV and fluorescent lights
- No ductwork required
- No installation required - plugs directly into a standard 110V or 220V electrical outlet
- Seamless plastic design -no joints or gaps in construction
- UV shelf with built-in pipettor holder
- UVtect™ microprocessor controller
- Digital UV light timer: 01-59 minutes
- Lab event timer
- Access port for electrical cords

### Standard features

- Polycarbonate and polypropylene design reflects UV energy
- Shipped fully assembled
- Overlapping polycarbonate sash to prevent UV light exposure
- Sash safety switch automatically turns off UV light when sash is raised
- Electronics are located above the workspace, eliminating the chance of a chemical spill entering these sensitive areas

External Dimensions		
	SYN-32DBC-E	SYN-48DBC-E
Width	32"	48"
Depth	24"	24"
Height	39"	30"
Internal Dimensions		
Width	31"	47"
Depth	23"	23"
Height	24"	23"

## Vertical Laminar Flow Workstation

AirClean® Systems AC600 Series vertical laminar flow workstations are ideal for non-hazardous applications that require a clean work area. These compact, lightweight workstations provide positive-pressure Class 100/ ISO 5 air throughout the workstation and sash opening, keeping airborne particulate away from sensitive applications.



### Unique safety features

- **Filter safety lockout to ensure correct filter replacement**
- **Filter and electronics are located above the workspace, eliminating the chance of a chemical spill entering these sensitive areas**
- **Shipped fully assembled**
- **Tested to UL 61010-1, CSA C22.2 No. 61010-1, and EN 61326-1**
- **ISO 5 tested**
- **Real time monitoring of installed filtration bed**

### Standard Features

- **Clear 360° visibility**
- **Class 100/ISO5 or better air quality**
- **Microprocessor-based controller with HEPA filtration monitoring**
- **Available in 34" or 48" wide 220AC version**
- **Lab event timer**
- **Unibody plastic design - no joints or gaps in construction**
- **Shipped fully assembled**

External Dimensions		
	SYN-32DWASH-E	SYN-32DWASHU-E
Width	32"	32"
Depth	24"	24"
Height	30"	39"

## Microscope Enclosure

AirClean® Systems ductless microscope enclosures provide a Class 100/ISO5 work environment. The microscope ocular port allows for easy access of eyepiece and viewing platform.



### Standard features

- **Process protection enclosure provides vertical Class 100/ISO 5 clean air with timed UV irradiation**
- **Microprocessor controlled with HEPA filtration monitoring**
- **Clear, 360° visibility**
- **Lab event timer**
- **Shipped fully assembled**

External Dimensions		
Product Number	SYN-AC632TLFUVMIC	SYN-AC648TLFUVMIC
Width	32"	48"
Depth	24"	24"
Height	40"	42"
Internal Dimensions		
Width	31"	47"
Depth	23"	23"
Height	28"	30"

## Accessories



Our white, epoxy-coated carts are engineered and designed to support AirClean® AC600 Series Ductless Workstations. The stands are constructed of 1.5 tube stock 14-gauge cold-rolled steel with locking casters. All carts feature a two-position moveable base bar for wheelchair or lab chair compatibility. Standard height of 34" meets ADA requirements.



AirClean® Systems UVTect™ microprocessor controller, standard on all laminar flow hoods, workstations, and enclosures, provides user-friendly monitoring and control features. The UVTect™ controller constantly monitors the HEPA filter to ensure proper airflow. Proper airflow is critical in maintaining a clean working environment. If the workstation is equipped with an ultraviolet energy source, the UVTect™ controller monitors the effectiveness of the bulb and alerts the operator when replacement is necessary.

## Mechanical Filtration



The particulate pre-filter is an electrostatically charged fiber filter which effectively removes submicron particulates. It is designed to protect the absorption filter from contaminants such as smoke, acid mists, and other submicron particulates. All units are initially supplied with a pre-filter.



Ultra Low Particulate Air (ULPA) Filters are available in various configurations for the containment of particles. This filter has a 99.999% efficiency rating for collecting 0.125 micron particles.

High Efficiency Particulate Air (HEPA) Filters are available in various configurations for the containment of particles. The filter has a 99.997% efficiency rating for collecting 0.3 micron particles

SYN-32TRW	Trolley for 32" wide models, 2 locking and 2 free flow wheels	SYN-49FHEPA	HEPA filter, 99.997% efficient at 0.3 microns
SYN-32TRF	Trolley for 32" wide models, 4 leveling feet	SYN-49FHEPA18	HEPA filter, 99.997% efficient at 0.3 microns
SYN-48TRW	Trolley for 48" wide models, 2 locking and 2 free flow wheels	SYN-49FLFPRE	Pack of 12, prefilters
SYN-48TRF	Trolley for 48" wide models, 4 leveling feet	SYN-49FLFPRE7	Pack of 12, prefilters
SYN-49AUVBL4	Replacement UV Bulbs, Pack of 4	SYN-49FULPA	ULPA filter, 99.99% efficient at .125 microns

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