PCR Workstations

AirClean® Systems AC600 PCR Workstations are designed as application solutions for the manipulation and amplification of DNA and RNA. Cross-contamination during amplification of DNA and RNA can lead to results that are inaccurate. These results cost the lab technician valuable time and consume expensive reagents. Incorporating an AirClean® Systems Combination PCR Workstation into the procedure minimizes the potential for cross-contamination.

AirClean® Systems AC600 PCR Workstations are designed and constructed with the application and operator in mind. Short wave ultraviolet energy has been found harmful to humans at certain exposure levels. Each workstation is constructed from polycarbonate which effectively reflects short wave ultraviolet energy. AirClean® Systems PCR Workstations are designed in a unibody fashion with overlapping parts to ensure that no harmful ultraviolet energy escapes the chamber during sterilization. The base of each PCR Workstation is made of a custom extruded polypropylene blend that not only reflects ultra-violet energy but allows for easy cleaning between amplifications.

AirClean® Systems AC600 PCR Workstations offer a controlled environment for PCR applications. Using an AirClean® Systems PCR Workstation can improve your odds and reduce the amount of reagents required to achieve your desired results.

The AirClean® Systems PCR Workstations are available in three configurations.

Dead Air Box

AirClean® Systems Dead Air Boxes provide a circulation free environment with UV light sterilization. The Dead Air Box is standard with a 0-15 minute mechanical timer for sterilization between amplifications. A safety interlock switch prevents exposure to UV light when sash is raised.

Catalogue Numbers:    AC648DB
                      AC632DB

Dead Air Box Features:

- Polycarbonate and polypropylene design to reflect UV
- Safety switch to prevent exposure to harmful ultraviolet exposure
- Full access folding sash
- 0-15 minute manual UV light timer
- Unibody plastic design - no joints or gaps in construction
- UV light and fluorescent light standard
- 240V AC Power required
- Available in 813, and 1220mm widths, nominal depth 610mm.
Laminar Flow Workstation

The AirClean® Systems Laminar Flow Workstations provide a sterile environment to allow contamination-free manipulation of samples and cultures. The units are of similar construction to the Dead Air Boxes only with an active air flow through a HEPA filter and no UV light.

The front sash is linked to the fan system via a safety switch so when the sash is lowered, the blower is turned off.

Catalogue Numbers:  
AC632LF  
AC632TLF  
AC648LF  
AC648TLF

Combination Workstation

AirClean® Systems Combination Workstation combines an ISO 5 (FS209E) Class 100 clean air environment with UV light sterilization for optimal protection from sample contamination. Raising the bi-fold sash turns off the UV light and enables the blower.

Catalogue Numbers:  
AC632LFUV  
AC648LFUV  
AC648TLFUV  
AC632TLFUV

Combination Workstation Features:

- UVfect™ microprocessor controller
- Class 100 vertical laminar flow air
- Polycarbonate and polypropylene design to reflect UV energy
- Full access folding sash
- Unibody plastic design - no joints or gaps in construction
- Digital UV light timer 0-60 minutes
- Lab event timer
- 240V AC Power required
- Available in 813, and 1220mm widths, nominal depth 610mm.
**UVTect™ Microprocessor Controller**

UVTect™ microprocessor controller is a standard feature on AirClean® Systems PCR Workstations. UVTect™ constantly monitors the effectiveness of the workstation, alerting the operator if the HEPA filter or UV bulb need replacement. UVTect™ also allows the operator to manually adjust the airflow, accommodating even the most fragile samples.

**Controller Features:**
- Variable speed blower control
- 254 nm ultraviolet light with user set digital timer
- Constant HEPA filter monitoring
- Constantly monitors and alerts effectiveness of the shortwave UV bulb life
- Lab event timer
- Standard on 813mm and 1220mm widths; not available on 610mm models

**Combination Workstation**

**How it Works:**
1. Room air enters at “A”
2. Air forced through HEPA filter creating laminar flow
3. Clean laminar flow air enters at “B” and exits at “C”
4. UV light sterilizes pipette tips, tubes and flasks

Optional removable shelf for irradiating tubes, pipette tips and flasks
## Combination PCR Workstation

Class 100 Vertical Laminar Flow  
HEPA Filtration • UV Light Sterilization  
UVTect™ Microprocessor Control

### AC600 Series Specifications Sizes

<table>
<thead>
<tr>
<th>Description</th>
<th>AC648DB</th>
<th>AC632LF</th>
<th>AC648LF</th>
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PCR is a registered trademark of Hoffman LaRoche. All above models are available in a tall version.
Design and Construction
Turnkey Laboratory Fit-Outs
Complete Laboratory Packages

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