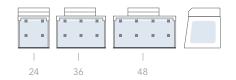


# PurairUV











# INTRODUCTION

The Purair® UV Dead Air Box is a specialized laboratory enclosure designed to create a stable, circulation-free workspace that safeguards sensitive biological samples, particularly during PCR amplification. It uses an internal UV light to sterilize the worksurface, along with any tools placed on the worksurface, between applications. Built-in safety interlocks protect users from UV exposure. By eliminating forced airflow, Purair UV Dead Air Boxes help reduce crosscontamination. This helps support the accuracy and reliability of DNA/RNA manipulation as well as other routine molecular biology procedures.

## **APPLICATIONS**

Purair UV enclosures are intended for use in non-hazardous applications where biological or biohazard byproducts are not generated and user protection is not required.

PCR Laboratories \ DNA/RNA Manipulation
Forensics \ Pharmaceutical \ Sample Preparation
General Research Protocols

### KFY FFATURES

- Still-Air Environment: Unlike laminar flow cabinets which provide non-turbulent, HEPA-filtered airflow, a dead air box creates a circulation-free space with no airflow (still air).
- UV Sterilization: A built-in 254nm UV light is used to irradiate and sterilize the interior
  of the box, between uses, reducing microorganisms and nucleic acid contamination that
  could affect sensitive reactions.
- Safety Interlock: A safety switch is included to disable the UV light automatically when the protective sash is raised, preventing accidental operator exposure.
- Contamination Prevention: A fully closing front sash helps reduce introduction of airborne particulate contamination into the work zone, helping to maintain the integrity of experimental results.
- Cost-Effectiveness: Dead air boxes are a more cost-effective option for many basic and routine laboratory tasks compared to more complex air filtration systems.

### **UV PROTECTION**

Because Polymerase Chain Reaction (PCR)\* amplification is extremely sensitive to contamination, prevention of contamination requires good laboratory practices to minimize external or cross-contamination during reagent preparation, sample preparation and sample amplification.

The Purair UV is designed to create light emission conditions known to safely decontaminate contents while protecting the operator. High-intensity UV lamps destroy exposed surface DNA and bacteria. This helps minimize cross-contamination in sensitive PCR experiments and improves the reliability of results.

\* Polymerase chain reaction (PCR) is a patented process owned by Hoffman La Roche.



PRODUCT OVERVIEW

PCR-24 (DB) shown with optional mobile cart.



Deep into its second generation, Air Science embraces the diversity and cultural heritage of the founders and co-workers who are continuing a tradition of excellence. Demonstrating a commitment to adaptation, inclusion and quality output from a United States-based company with a domestic and global reach.

**Dead Air Boxes** 



# **DESIGN FEATURES**

- **A.** Control Panel: The integrated control panel features
- **B.** Stand: Optional base stand converts to mobile cart
- C. Lighting: Compact LED cabinet lamp provides
- **D.** UV Lamp: Built-in ultraviolet lamp with timer
- E. Pass Through Ports: Convenient rear wall passthrough ports for safe routing of instrument
- **F.** Ergonomic Design: Ergonomically angled front

- **G.** Work Surface: Large polypropylene work surface, white or black standard with optional stainless
- **H.** Magnetic Door Latch: Safety interlock prevents
- I. Double-Hinged Self-Locking Front Sash: The

# ADDITIONAL FEATURES

360 Degree Visibility: Clear back and side panels allow ambient light into the chamber and provide users with

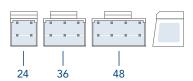
Construction: All models are available in 120V, 60Hz

Each Purair UV enclosure is expertly designed to meet specific applications and certified for quality construction. Standard features, options and accessories are developed purposefully to enhance user-friendliness.

### DESIGN

The cabinet frame and work surfaces, comprised of industrial components, are durable and chemically resistant.

An optional stainless steel work surface includes lips on all four sides to contain spills.



# **SELECTION**

Purair UV enclosures are available in three model sizes with various options. Designed for desktop use or installation on an optional base stand or mobile cart.

# CONTROL

The **standard integrated control panel** features an On/Off switch for the light and UV lamp timer.

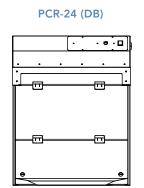


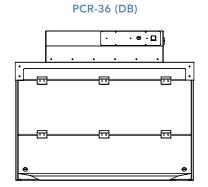
PCR-36 (DB)

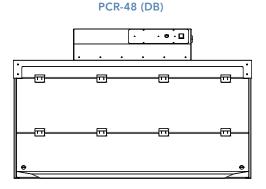


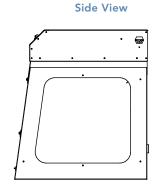
Standard Controller

5









MODEL	VOLTAGE	DIMENSIONS			WEIGHT (LBS/KG)			
		Nominal Width	Internal Height	Internal Depth	External (W $\times$ D $\times$ H)	Shipping (W × D × H)	Net	Ship
PCR-24 (DB)-A	120V, 60Hz	24" / 610 mm	23.29" / 591.5 mm	26.75" / 679 mm	24" × 27" × 30" / 610 × 686 × 762 mm	48" × 40" × 45" / 1219 × 1016 × 1143 mm	72 / 33	150 / 68
PCR-24 (DB)-G	230V, 50Hz	24" / 610 mm	23.29" / 591.5 mm	26.75" / 679 mm	24" × 27" × 30" / 610 × 686 × 762 mm	48" × 40" × 45" / 1219 × 1016 × 1143 mm	72 / 33	150 / 68
PCR-36 (DB)-A	120V, 60Hz	36" / 914 mm	23.29" / 591.5 mm	26.75" / 679 mm	36" × 27" × 30" / 914 × 686 × 762 mm	48" × 40" × 45" / 1219 × 1016 × 1143 mm	99 / 45	175 / 79
PCR-36 (DB)-G	230V, 50Hz	36" / 914 mm	23.29" / 591.5 mm	26.75" / 679 mm	36" × 27" × 30" / 914 × 686 × 762 mm	48" × 40" × 45" / 1219 × 1016 × 1143 mm	99 / 45	175 / 79
PCR-48 (DB)-A	120V, 60Hz	48" / 1219 mm	23.29" / 591.5 mm	26.75" / 679 mm	48" × 27" × 30" / 1219 × 686 × 762 mm	60" × 40" × 45" / 1524 × 1016 × 1143 mm	138 / 63	225 / 102
PCR-48 (DB)-G	230V, 50Hz	48" / 1219 mm	23.29" / 591.5 mm	26.75" / 679 mm	48" × 27" × 30" / 1219 × 686 × 762 mm	60" × 40" × 45" / 1524 × 1016 × 1143 mm	138 / 63	225 / 102

<sup>&</sup>quot;A" — 120V, 60Hz "G" — 230V, 50Hz

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# **PRODUCT SPECIFICATIONS**

Construction	PCR-24 (DB)	PCR-36 (DB)	PCR-48 (DB)
Finish (exterior)	$<\cdots$ White epoxy-coated steel frame with white legs on cabinet sides. $\cdots>$		
Windows		$< \cdots$ Polycarbonate, transparent, UV absorbing. $\cdots >$	
Controls	<··· N	Main On/Off switch for lighting. UV timer, safety interlock shut-o	ff. ···>
Work Surface	< Standard, black poly	propylene. Optional, white polypropylene or stainless steel. Sp	pecify when ordering. ···>
Pass Through Ports		$< \cdots$ Two standard, knockout. $\cdots >$	
Shelving		$< \cdots$ Decontamination shelf on rear wall. $\cdots >$	
Front Sash		$< \cdots$ Standard, hinged double with safety interlock. $\cdots >$	
Efficiency	PCR-24 (DB)	PCR-36 (DB)	PCR-48 (DB)
Lighting		<··· LED lighting ···>	
UV Lamp		$< \cdots 1 \times 253.7$ nanometer 15 watt. $\cdots >$	

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Options & Accessories (p.7)



# **OPTIONS AND ACCESSORIES**

Purair Model		PCR-24 (DB)	PCR-36 (DB)	PCR-48 (DB)
Spill Tray (Stainless Steel)	Removable for easy cleaning.	TRAY-P5-24-SS	TRAY-P5-36-SS	TRAY-P5-48-SS
Base Stand, Mobile, with Casters	Provides a lower storage shelf; accommodates wheelchair access. Locking casters fix the hood in place.	CART-25	CART-36	CART-50
Base Cabinet, Fixed (Metal)	Provides storage space below.	CART-MCC-25	CART-MCC-36	CART-MCC-50
Base Cabinet, Fixed (Polypropylene)	Provides storage space below.	CART-SSC-25	CART-SSC-36	CART-SSC-50
Fire Safety Cabinet Base	Flame resistant safe storage for combustible and flammable liquids.	CART-FSC-25	CART-FSC-36	CART-FSC-50

### **CONTENTS:**

Product Overview (p.2) Design Features (p.3)



# WARRANTY

This product is protected by the Air Science Legacy Limited Lifetime Warranty™.



For details visit the Warranty section of our website.

STANDARDS & COMPLIANCE			
Quality Management Systems ISO 9001:2015			
Electrical Safety	UL-C-61010-1 CAN/CSA C22.2 61010-1-12 EN 61010-1:2010 CE Mark		
Environment	ISO 14001:2015 ENERGY STAR® Partner		



120 6th Street \ Fort Myers, FL 33907 **T.** 239-489-0024 \ **Toll Free.** 800-306-0656 \ **F.** 800-306-0677 airscience.com

Air Science® Technologies Ltd. \ United Kingdom **T.** 0151 526 2457 \ airscience.com/UK



