# Pur O ADVANCED



# **General Application Ductless Fume Hoods**

• Premium Features and High Performance for Demanding Applications





59 watt<sup>1</sup> Purair model P20-XT shown with optional velometer.



37–118 watt<sup>1</sup>

The single EC blower motor assures lower cost of ownership in one of the world's most energy efficient ductless fume hoods.













#### INTRODUCTION

Purair® Advanced Series ductless fume hoods are designed to protect the user and the environment from hazardous vapors generated on the work surface.



#### **APPLICATIONS**

Using innovative filtration technology, the Purair Advanced creates a safe work environment over the widest range of applications in the industry.

Compounding \ Balance Enclosures, Microscopes and Robotic Equipment \ Forensics \ Histology \ Educational \ Microscopy \ Mobile and Classroom Demonstrations \ Pharmaceutical \ Powder Fingerprinting \ Powder Weighing \ Sample Prep Work \ Soldering \ Solvent Cleaning and Welding \ Veterinary \ Dental



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.







- High operator protection to fume and particle hazards.
- Improved clamping eliminates bypass leakage.
- Filter blockage alarm.
- Polypropylene work surface (stainless steel optional).
- High capacity filters for more demanding applications.

#### **DUCTLESS TECHNOLOGY**

#### The Eco-Friendly Choice

Advanced carbon filtration technology offers a safe, high performance alternative to conventional ducted fume hoods for a broad range of applications.

Environmental Benefits. Air Science® ductless fume hoods isolate and trap chemical vapors to prevent ecological impact through release into the environment.

**Versatile.** Each filtration system is selected for its specific application. Carbon filters are available in more than 14 configurations for use with vapors of organic solvents, acids, mercury and formaldehyde. HEPA/ULPA filters can be added for biological safety.

Easy to Install. The ductless fume hood is self-contained and does not require venting to the outside. Many units are portable and may be moved with minimal downtime and without filter changes. Set-up, operation, and filter maintenance are straightforward.

**Energy Efficient.** Because filtered air is returned to the room, no demands are required of the facility HVAC capacity for make-up air.

Cost Effective. Facility ductwork, HVAC and construction costs are eliminated.

Safe to Use. Cabinet airflow and face velocity protect users from incidental exposures to fumes.

**Self-Testing.** (select models) Electronic airflow monitoring assures continuous safety. An electronic gas sensor monitors carbon filter performance.





37 watt1 Model P10-XT shown with optional FSA/Autocal controller and mobile cart.

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#### **DESIGN FEATURES**

- A. Filter I.D. Window: A convenient, strategically
- **B.** Control Panel: Electronic controls and displays
- C. Filter Blockage Alarm: Continuously monitors filter
- **D.** Air Velometer: An analog air velocity
- **E.** Steel Support Frame: The chemical resistant
- **F.** Hinged Front Sash: When closed, the cabinet
- **G.** Work Surface: The internal work surface can be
- **H.** Pass Through Ports: Electrical cords and cables are
- **I.** Electrostatic Pre-Filter: The electrostatic pre-filter
- **J.** Filter Door Key: Filter access keys prevent

- **K.** Dynamic Filtration Chamber: The dynamic
- L. Internal Manual Speed Controller: Authorized
- M. Stand: Optional mobile cart with locking casters.
- N. Safety Filter: The optional carbon or HEPA/ULPA
- O. Air Sampling Port: A filtered air sampling port allows
- P. Track & Wheel System: The filter glides in on a wheel

#### **ADDITIONAL FEATURES**

360 Degree Visibility: Clear acrylic back and side panels

Construction: All models are available in either metal

39 watt<sup>1</sup> Purair P15-XT, shown with optional stainless steel spill tray and mobile cart.

Power consumption published is nominal and dependent on cabinet size.

120 6th Street, Fort Myers, FL 33907 Toll Free. 800-306-0656 \ www.airscience.com Specifications are subject to change without notice or obligation on the part of Air Science. For questions contact Air Science. 1) Energy consumption disclosure is based on internal testing with primary filters during normal operation.

Design Features (p.3)
Performance & Selection (p.4)
Filtration Technology (p.5)

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Options & Accessories (p.9)

Each Air Science fume hood includes features expressed through sound design and certified quality construction. Options and accessories add functional performance to meet specific applications.

#### PERFORMANCE

The Air Science Multiplex filter offers a range of options for high performance protection.

- Multiplex filter configuration permits a customized combination of filter media for a broad range of chemical families and biological agents if required.
- EFT<sup>™</sup> filtration technology broadens the Air Science application for ductless fume hoods.
- A high capacity air handling system delivers face velocity of 100 fpm.

#### DESIGN

Professional quality Air Science fume hoods comply with current technical and safety regulations. The cabinet frame and work surfaces, comprised of industrial components, are durable and chemically resistant.

The Air Science filter assembly is easy to access, easy to change, plus a unique filter clamping design eliminates bypass leakage outside the cabinet.

The optional SafeSwitch HEPA Filter Shutter System is available for safer filter exchange.





**Energy-efficient** EC blowers promote long life and dependable performance of Purair Advanced fume hoods.



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PERFORMANCE & SELECTION

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#### **SELECTION**

Purair Advanced products are available in 7 standard sizes, in metal or polypropylene construction, totaling 14 standard models.

#### **RFI IABILITY**

Internal systems are isolated from fumes, extending product life.



Advanced Control Panel



FSA/Autocal Control Panel



FSA Control Panel

#### CONTROL

The **advanced control panel** is standard and includes an On/Off switch, Hour Counter and Filter Blockage alarm.

The **optional FSA/Autocal controller** displays the airflow and offers limited detection of low concentrations of hydrocarbon, some gases and organic acids. Audio and visual alarms alert users to filter saturation and if the airflow reaches preset thresholds. An Hour Counter is also included.

The **optional FSA controller** offers limited detection of low concentrations of hydrocarbon, some gases and organic acids. Audio and visual alarms alert users if filter saturation reaches preset thresholds. An Hour Counter and Low Airflow alarm are also included.

The **optional Autocal controller** displays the airflow. Audio and visual alarms alert users if the airflow reaches preset thresholds. An Hour Counter is also included.

The **optional Monitair microprocessor** controller monitors and displays cabinet operating parameters, airflow, containment and offers limited detection of low concentrations of hydrocarbon, some gases and organic acids. Audio and visual alerts if conditions become unsafe and are all displayed on a LCD screen.



**Autocal Control Panel** 



Monitair Control Panel

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FILTRATION TECHNOLOGY



#### FILTRATION

At the heart of the Purair product line is innovative filtration technology. The Multiplex Filtration System consists of a pre-filter, main activated carbon or HEPA/ULPA filter and safety activated carbon or HEPA/ULPA filter. The system permits a customized combination of filter media and configuration for chemical and physical adsorption specific to each application need.

The Air Science carbon filtration technique is based on enhanced, activated carbon particle formulations from specially selected, naturally occurring raw material that is superior to wood or other organic sources. The carbon is treated to attain the proper porosity and aggregate surface area and to react with several ranges of aerosolized chemicals moved through the filter by an air handling blower.

View available filters and descriptions on page 8.





The optional SafeSwitch HEPA Filter Shutter system ensures that operators are safely separated from trapped contaminants during filter changes.

#### FILTER CONFIGURATION

The Multiplex feature permits one or more filtration options to be combined to meet a wider range of multiple-use applications.

The Purair Advanced can be equipped with a single activated carbon main filter or with a stacked configuration which combines two main filters, each activated to adsorb one or more specific vapors or family of vapors. For safety against particulates, an optional HEPA or ULPA can also be added. When used with a HEPA/ULPA filter, the ductless fume hood may be applied as a Class I Biological Safety Cabinet.

The carbon filter is sized to fit the specified product model number and configured to optimize airflow across 100% of the filter surface area. The self-contained assembly maximizes filter efficiency, prolongs filter life, optimizes diffusion and saturation and improves user safety.

- P. Electrostatic Pre-Filter: Protects the main filters from aerosols. mists, dust and particulates.
- C. Activated Carbon Main Filter: A single, blended, or stacked filter configuration.
- H. HEPA/ULPA Filter, Optional: Both HEPA and ULPA filters use micro-glass fiber media designed to capture fine particles and biologicals. Both filters can capture particles smaller than the micron size for which they are tested. HEPA and ULPA filter efficiencies are 99.995% at 0.3 microns and 99.9995% at 0.12 microns respectively.

MULTIPLEX FILTRATION SYSTEM, SUMMARY					
Application	Chemical	Powder/ Biological	Chemical & Powder	Chemical within Cleanroom	
Secondary/ Stacked Filter, Optional	C	Н	H or C	H	
Primary Filter	C	H	H C	HC	
Pre-Filter	P	P	P	P	

The system can be configured for the capture of acids, bases and particulates. such as biological aerosols, when paired with HEPA or ULPA filters.

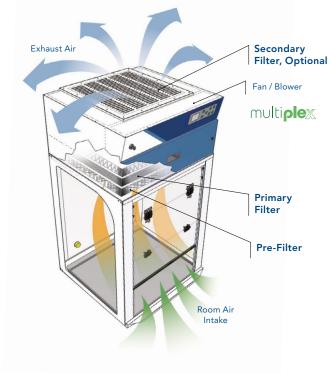
#### **AIRFIOW**

The Purair Advanced ductless fume hood maintains a constant face velocity of 100 fpm in compliance with USA and international standards for safety and performance. Contaminated air is pulled through the Multiplex filtration system; clean air is returned to the room.

The main filters are easy to replace and install. The filter clamps tightly against the filter gasket to prevent filter bypass and maintain filter integrity.

A The pre-filter may be replaced while unit is in operation.

The safety filter is easy to replace and enhances filter capacity of the hood.



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#### **ENHANCED FILTRATION**

The Air Science Enhanced Filtration Technology (EFT) is a universal filtration system developed for use with a wide range of core chemical families. These include organic acids, alcohols, aliphatic hydrocarbons, aromatic hydrocarbons, esters, aldehydes, ketones, ethers, halogens and others. Although the EFT system is weighted to accommodate these families, it can handle inorganic acids as well.

The Air Science EFT system is available as an option on Air Science Purair Advanced ductless fume hoods, standard on Purair Eco Series fume hoods and can be retrofitted on many Air Science ductless fume hoods already in service worldwide.



Ductless Fume Hoods

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FILTRATION TECHNOLOGY

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Independent Test Results Independent testing confirms that the Air Science EFT system is superior in critical areas to other "green" fume hood systems recently introduced to the industry. AFNOR NFX 15-211 requires that three chemicals (isoproponal, cyclohexane and hydrochloric acid) be tested under very precise conditions to ascertain and establish retention capacity at 1% of the threshold limit value (TLV) for each chemical.

## Retention capacity (grams) for a single module at 1% of the TLV (Threshold Limit Value)

Specification	AFNOR NI	AFNOR NFX 15-211			
Testing Laboratory	IBR	Intertek			
Product Manufacturer	Air Science	Brand E			
Filter Type		Green			
Test Results	<b>GFI</b>				
Isopropanol (alcohol)	2052	673			
Cyclohexane (aliphatic hydrocarbon)	1531	914			

\*Based on "core" chemical families typically used in ductless fume hood applications, the Air Science EFT filter offers significant advantages over filters marketed as "universal" filters. With moderate to heavy acid applications, all ductless fume hoods made of metal are subject to corrosion and rust. On inorganic acids, the EFT filter provides a lesser, but more realistic, usable capacity.



Hydrochloric acid (inorganic acid)\*



Filter disposal services are available in selected markets providing responsible destruction or recycling of saturated filters in authorized facilities.



**Avoid Revolving Filters** Air Science strongly discourages the unsafe practice of revolving secondary backup filters into the primary filter compartment. All Air Science units are designed to avoid this false sense of security.

In a revolving filter system, users are instructed to rotate the secondary backup filter into the primary filter position after non-permissible exposure levels of chemicals are detected within the monitoring chamber.

Depending on when the unit can be properly shut down, the secondary filter can be loaded to the point of saturation itself, thereby creating a safety hazard if the filter is considered new.

If a new spare filter is not immediately available, a user may inadvertently (or knowingly) re-install a contaminated primary filter into the secondary location permitting the system to operate without protection.

Additionally, the secondary filter can become contaminated as it ages, sometimes for years, on top of an operational cabinet, losing filter efficiency by the time it is installed.

Either practice puts both personnel and the environment at risk, even though some manufacturers provide stickers to label the filters as "used."

The Air Science non-revolving filter practice ensures that only a new filter is fitted into the primary filter compartment and permits the secondary filter to remain installed for at least twice the change-out period, resulting in a 50% savings in filter change-out costs.



Through our partner company <u>Filtco Filters</u>, Air Science is a single source supplier of all pre-filters, carbon filters and HEPA/ULPA filters used in our products.

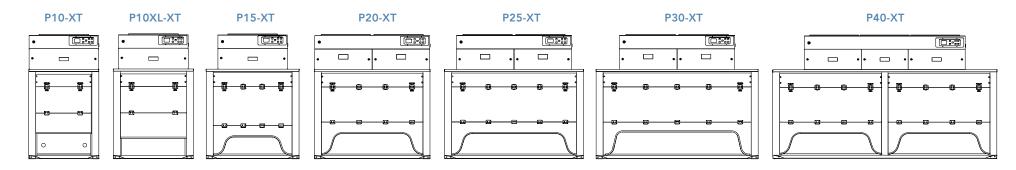
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1) Energy consumption disclosure is based on internal testing with primary filters during normal operation. Power consumption published is nominal and dependent on cabinet size. Product Overview (p.2) Design Features (p.3) Filtration Technology (p.5) **ADVANCED** 10 • 10XL • 15 • 20 • 25 • 30 • 40 **Ductless Fume Hoods SPECIFICATIONS** 

Specifications (p.7)

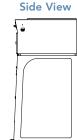


MO	DEL		DIMENSIONS			
Metal	Polypropylene	Internal Height	External (W × D × H)	Shipping (W × D × H)	Net	Ship

Tall Models	
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P10-XT	P10-XT-PP	38" / 965 mm	30" × 27.375" × 53" / 762 × 695 × 1346 mm	50" × 40" × 42" / 1270 × 1016 × 1067 mm	111 / 50	175 / 79
P10XL-XT	P10XL-XT-PP	38" / 965 mm	34" × 27.375" × 53" / 864 × 695 × 1346 mm	$40" \times 40" \times 42" / 1016 \times 1016 \times 1067 \text{ mm}$	141 / 64	225 / 102
P15-XT	P15-XT-PP	38" / 965 mm	39" × 27.375" × 53" / 991 × 695 × 1346 mm	40" $\times$ 50" $\times$ 42" / 1016 $\times$ 1270 $\times$ 1067 mm	143 / 65	250 / 113
P20-XT	P20-XT-PP	38" / 965 mm	49" × 27.375" × 53" / 1245 × 695 × 1346 mm	55" $\times$ 60" $\times$ 42" / 1397 $\times$ 1524 $\times$ 1067 mm	216 / 98	325 / 147
P25-XT	P25-XT-PP	38" / 965 mm	59" × 27.375" × 53" / 1499 × 695 × 1346 mm	40" $\times$ 67" $\times$ 42" / 1016 $\times$ 1702 $\times$ 1067 mm	235 / 106	350 / 159
P30-XT	P30-XT-PP	38" / 965 mm	69" × 27.375" × 53" / 1753 × 695 × 1346 mm	40" × 80" × 42" / 1016 × 2032 × 1067 mm	315 / 143	400 / 181
P40-XT	P40-XT-PP	38" / 965 mm	96" × 27.375" × 53" / 2438 × 695 × 1346 mm	40" × 108" × 42" / 1016 × 2743 × 1067 mm	427 / 193	550 / 249





Specifications (p.7)

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**PRODUCT SPECIFICATIONS** 

Filtration	P10-XT	P10XL-XT	P15-XT	P20-XT	P25-XT	P30-XT <sup>1</sup>	P40-XT	
Face Velocity	100 fpm	100 fpm	100 fpm	100 fpm	100 fpm	100 fpm	100 fpm	
Construction	P10-XT	P10XL-XT	P15-XT	P20-XT	P25-XT	P30-XT1	P40-XT	
Finish	<	< White epoxy coated steel frame and head unit. Clear sides and back panel. Polypropylene spill tray>						
Blower				<··· EC blower. ···>				
Controls			<	··· Main On/Off. ···>	>			
Electrical	<	< 120V, 60Hz or 230V, 50Hz voltages available. Specify when ordering. Other voltage options available>						
Monitoring			<··· Filter	blockage alarm, stan	dard. ···>			

Efficiency	P10-XT	P10XL-XT	P15-XT	P20-XT	P25-XT	P30-XT <sup>1</sup>	P40-XT
Power Consumption <sup>2</sup>	37 watt	62 watt	39 watt	59 watt	60 watt	67 watt	84 watt
Lighting		<··· LED. ···>					

<sup>&</sup>lt;sup>1)</sup> The Purair 30 Series is configured with two filter sections, standard. A three filter configuration (similar to the Purair 40) is available to increase the airflow volume to 590 cfm; specify when ordering.

#### **FILTER SUMMARY\***

Formula	Description
GP Plus!	The most widely used filter in the range, primarily for solvent, organic and alcohol removal.
ACI Plus!/ SUL	Designed to neutralize volatile inorganic acid vapors.
ACR	lodine and methyl iodide vapors; It is frequently used for iodination reactions with lower level radioactive iodine.
ACM	Mercury vapor.
AMM	Removes vapors from dilute ammonia solutions and to remove low molecular weight amines.
FOR	Designed to oxidize formaldehyde and glutaraldehyde fumes; It is widely used in hospital pathology laboratories.
HEPA/UPLA	Powders and particulates.
	Universal filtration.

<sup>\*</sup>Other formulas may be available.

#### FILTER SPECIFICATIONS

Purair Model	P10-XT	P10XL-XT	P15-XT	P20-XT	P25-XT	P30-XT1	P40-XT
Safety Filter, Optional*	(1)	(1)	(1)	(2)	(2)	(2)	(3)
Primary Filter(s)*	(1)	(1)	(1)	(2)	(2)	(2)	(3)
Pre-Filter*	(1)	(1)	(1)	(2)	(2)	(2)	(3)

<sup>\*</sup> For specific examples refer to Multiplex filtration system summary on page 5.

<sup>&</sup>lt;sup>2)</sup> All measurements are with Filter Type ASTM-030.

<sup>&</sup>lt;sup>3)</sup> Measured 12" (30 cm) from the cabinet front and 15" (38 cm) above the work surface plane.

#### **OPTIONS & ACCESSORIES**

Purair Model		P10-XT	P10XL-XT	P15-XT	P20-XT	P25-XT	P30-XT	P40-XT
Safety Filter*  An additional carbon, HEPA or ULPA safety filter exceeding ANSI/AIHA Z9.5 requirements can be installed after the main filter.			<··· Safety		particulate protect Air Science for order		all models. ···>	
FSA/Autocal Controller*	The optional FSA/Autocal controller displays the airflow and offers limited detection of low concentrations of hydrocarbon, some gases and organic acids. Audio and visual alarms alert users to filter saturation and if the airflow reaches preset thresholds. An Hour Counter is also included.	ADV-P	ADV-P	ADV-P	ADV-P	ADV-P	ADV-P	ADV-P
FSA Controller*	The optional FSA controller offers limited detection of low concentrations of hydrocarbon, some gases and organic acids. Audio and visual alarms alert users if filter saturation reaches preset thresholds. An Hour Counter and Low Airflow alarm are also included.	FSA	FSA	FSA	FSA	FSA	FSA	FSA
Autocal Controller*	The optional Autocal controller displays the airflow. Audio and visual alarms alert users if the airflow reaches preset thresholds. An Hour Counter is also included.	AUTOCAL	AUTOCAL	AUTOCAL	AUTOCAL	AUTOCAL	AUTOCAL	AUTOCAL
Monitair Controller*	The optional microprocessor controller monitors and displays cabinet operating parameters, airflow, containment and offers limited detection of low concentrations of hydrocarbon, some gases and organic acids. Emits audio and visual alerts if conditions become unsafe and are all displayed on a LCD screen. Not TUV compliant.	MON-P	MON-P	MON-P	MON-P	MON-P	MON-P	MON-P
Spill Tray (Stainless Steel)	Removable for easy cleaning.	TRAY-P10-SS	TRAY-P10XL-SS	TRAY-P15-SS	TRAY-P20-SS	TRAY-P25-SS	TRAY-P30-SS	TRAY-P40-SS
Spill Tray (Polypropylene)	Removable for easy cleaning.	TRAY-P10	TRAY-P10XL	TRAY-P15	TRAY-P20	TRAY-P25	TRAY-P30	TRAY-P40

### **OPTIONS & ACCESSORIES (CONTINUED)**

Purair Model		P10-XT	P10XL-XT	P15-XT	P20-XT	P25-XT	P30-XT	P40-XT
SafeSwitch HEPA Filter Shutter System*	Minimizes exposure to filter contaminants when removing used HEPA filters for insertion of new filters.	ASTM-030-SS	ASTM-030-SS	ASTM-030-SS	ASTM-030-SS (2)	ASTM-030-SS (2)	ASTM-030-SS (2)	ASTM-030-SS (3)
Base Stand, Mobile, With Casters	The mobile cart provides a lower storage shelf; accommodates wheelchair access. Locking casters fix the hood in place.	CART-30	CART-35	CART-40	CART-50	CART-60	CART-70	CART-97
Base Cabinet, Fixed (Metal)	Provides storage space below.	CART-MCC-30	CART-MCC-35	CART-MCC-40	CART-MCC-50	CART-MCC-60	CART-MCC-70	CART-MCC-97
Base Cabinet, Fixed (Polypropylene)	Provides storage space below.	CART-SSC-30	CART-SSC-35	CART-SSC-40	CART-SSC-50	CART-SSC-60	CART-SSC-70	CART-SSC-97
Fire Safety Cabinet Base	Flame resistant safe storage for combustible and flammable liquids.	CART-FSC-30	CART-FSC-35	CART-FSC-40	CART-FSC-50	CART-FSC-60	CART-FSC-70	CART-FSC-97
Remote Control**	Wired controller, provides lower access height to comply with ADA requirements.	RC-P	RC-P	RC-P	RC-P	RC-P	RC-P	RC-P
Polypropylene Construction*	Ductless fume hoods are available in all polypropylene construction.	P10-XT-PP	P10XL-XT-PP	P15-XT-PP	P20-XT-PP	P25-XT-PP	P30-XT-PP	P40-XT-PP
Duplex Electrical Outlet*	Two NEMA-1420R receptacles with ground fault interrupter. 120V service standard; international fixtures available.	AS-GFI	AS-GFI	AS-GFI	AS-GFI	AS-GFI	AS-GFI	AS-GFI
Service Fitting*	Cabinets can be fitted with service fixtures in sidewall or on work surface.		<··· SF-X. Specif	y service fitting ty	pe (faucet, valve, pe	etcock) and location	when ordering	>
Stainless Steel Hanging Rod*	Hanging rod spans the width of the cabinet.	HANGR-P10	HANGR-P10XL	HANGR-P15	HANGR-P20	HANGR-P25	HANGR-P30	HANGR-P40
Cup Sink, Mounts into Tray*	Polyethylene cup sink (3" $\times$ 5" $\times$ 9") is fitted into the base tray. Other sizes, materials available. Contact Air Science to order.	SINK	SINK	SINK	SINK	SINK	SINK	SINK
UV Lamp***	Creates light emission conditions know to safely decontaminate interior surfaces. Includes a timer, door microswitch, fully closing front sash and UV filtering clear polycarbonate panels. The UV operation must comply with local codes and facility safety practices.	UV-P10	UV-P10XL	UV-P15	UV-P20	UV-P25	UV-P30	UV-P40

<sup>\*</sup> Factory installed; specify when ordering.

<sup>\*\*</sup> Handheld box connects via cable to head unit. Includes On/Off switch and blower speed control. Can be placed inside work zone.

<sup>\*\*\*</sup> Includes timer, door microswitch and fully closing front sash, all clear panels polycarbonate (UV filtering). Safety precautions need to be followed.

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**OPTIONS & ACCESSORIES** 

#### WARRANTY

Options & Accessories (p.9)

This product is protected by the Air Science Legacy Lifetime Warranty™ which starts on the date of shipment from our factory. This limited warranty is the result of thousands of successful Air Science production applications in pharmaceutical, laboratory, forensic, industrial and educational applications.

This warranty covers defects in materials and workmanship. Our liability under the Legacy Lifetime Warranty is, at our option, to repair or replace any defective parts of this equipment if you document that these parts were defective at the time we sold the product to you. Normal conditions apply.



For details visit the Service section of our website at www.airscience.com.

	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 UL Certification pending or not available for Models P30 and P40, or models equipped with optional Monitair controller.					
OSHA, Occupational Safety and Health Administration	OSHA Standard -29 CFR, Safety and Health Regulations for General Industry, 1910.1450: Occupational exposure to hazardous chemicals in laboratories. Part B, definition, laboratory type hood. Please consult your Safety Officer and/or Industrial Hygienist.					
Environment	ISO 14001:2015 ENERGY STAR® Partner					



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