

General Application Ductless Fume Hoods

- Provides Operator Safety and Numerous Features for General Applications



54 watt¹ Purair model P5-36-XT,
with optional velometer.



30-71 WATT¹

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



Operator



Particulate



Vapor



24



36



48



XT



XTS



Schedule

Contract # GS-47QSMS24D0042



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PurairBASIC
Ductless Fume Hoods

24 • 36 • 48
PRODUCT OVERVIEW

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INTRODUCTION

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



30–71 WATT¹

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

APPLICATIONS

Using innovative filtration technology, the Purair BASIC 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.

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KEY FEATURES

- High efficiency EC blower.
- Energy saving LED lighting.
- Protects the operator from fume and (with added HEPA/ULPA filter) particle hazards.
- Improved filter clamping eliminates bypass leakage.
- Filter blockage alarm.

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 with multiple 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.



71 watt¹ Purair P5-48-XT shown with optional Autocal controller, polypropylene spill tray and mobile base stand.

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. Power consumption published is nominal and dependent on cabinet size.

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DESIGN FEATURE

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DESIGN FEATURES

- A. Control Panel:** Electronic controls and displays include switches for the blower and filter blockage alarm.
- B. Filter Blockage Alarm:** Continuously monitors filter loading and alerts user when service is needed.
- C. Air Velometer:** An optional analog air velocity meter is positioned in the user's field of vision.
- D. Steel Support Frame:** The chemical resistant epoxy coated steel frame adds mechanical strength. Optional all polypropylene construction is available if desired; see accessories.
- E. Hinged Front Sash:** When closed, the cabinet sash protects the contents from inadvertent external contact and better isolates the air within. The sash is easy to open and close.
- F. Work Surface:** The internal work surface can be fitted with an optional polypropylene tray (available in white and black); see accessories.
- G. Pass Through Ports:** Electrical cords and cables are safely routed into the cabinet through ports on the back.
- H. Electrostatic Pre-Filter:** The electrostatic pre-filter is accessible from inside the chamber and 91% effective down to 1-3 microns.
- I. Filter Door Key:** Filter access keys prevent unauthorized removal or accidental exposure to dirty filters.

- J. Dynamic Filtration Chamber:** The dynamic filter chamber prevents any possible leakage of contaminated air by pressurizing the fan plenum (positive air) and depressuring the filter compartment (negative air).
- K. Internal Manual Speed Controller:** Authorized personnel may set the EC blower speed as desired.
- L. Stand:** Optional mobile base stand with locking casters.
- M. Safety Filter:** The optional carbon or HEPA/ULPA safety filter adds an additional layer of protection.

ADDITIONAL FEATURES

360 Degree Visibility: Clear back and side panels allow ambient light into the chamber and provide users with an unobstructed view of contents.

Construction: All models are available in either metal or polypropylene construction. Specify metal or polypropylene when ordering. See selection chart for specifications and dimensions. Available in 120V, 60Hz and 230V, 50Hz models.



30 watt¹ Purair P5-24-XT, shown with optional velometer and mobile base stand.

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PERFORMANCE & SELECTION

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Air Science high-efficiency fume hoods are expertly designed to meet specific applications and certified for quality construction. Standard features, options and accessories are developed purposefully to enhance user-friendliness.

PERFORMANCE

The Purair BASIC accommodates the full range of [Multiplex™ Filtration System](#) options.

The high capacity air handling system delivers face velocity of 80-100 fpm in compliance with US and international safety and performance standards.

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.

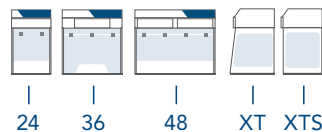
The Air Science filter assembly is easy to access and change. The unique filter clamping design eliminates bypass leakage outside the cabinet.

RELIABILITY

Internal systems are isolated from fumes, extending product life.



Energy-efficient blowers promote long life and dependable performance of Purair BASIC fume hoods.



SELECTION

Purair BASIC products are available in 3 standard widths, 2 depth options, in metal or polypropylene construction, totaling 12 standard models.

Custom manufacturing capabilities permit adaptations of standard cabinets such as polypropylene construction shown here with mobile base stand.



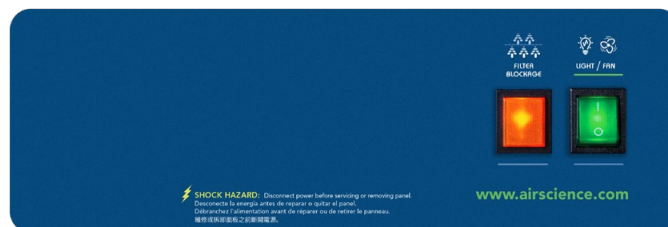
P5-24-XT shown on optional base stand with flame resistant safe storage cabinet

CONTROL

The **Basic** controller is standard and includes an On/Off switch and Filter Blockage alarm.

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.

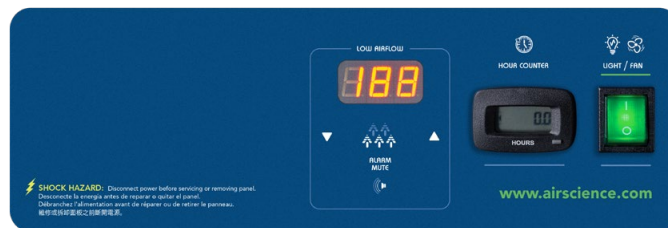
The **optional FSA/AutoCAL** controller displays the airflow and offers limited detection of low concentrations of hydrocarbon, some gases and organic acids. Audio and visual alarms alert users to filter saturation and if the airflow reaches preset thresholds. An Hour Counter is also included.



Basic Control Panel



FSA/AutoCAL Control Panel



AutoCAL Control Panel

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FILTRATION TECHNOLOGY

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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 filter and optional HEPA/ULPA filter cartridge. 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 cartridge by an air handling blower.

View available filter cartridges and descriptions on [page 7](#).

SECUR.
safe disposal service

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

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

The carbon filter cartridge 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 filter cartridges from aerosols, mists, dust and particulates.
- C. Activated Carbon Main Filter:** A single or stacked filter cartridge configuration. View configurations on [page 6](#).
- H. HEPA/ULPA Filter, Optional:** Both HEPA and ULPA filter cartridges use micro-glass fiber media designed to capture fine particles and biologicals. Both filter cartridges can capture particles smaller than the micron size for which they are tested. HEPA and ULPA filter efficiencies are 99.97% at 0.3 microns and 99.999% at 0.12 microns respectively.

MULTIPLEX FILTRATION SYSTEM, SUMMARY

Application	Chemical	Powder/ Biological	Chemical & Powder	Chemical within Cleanroom
Secondary/ Stacked Filter, Optional	C	H	C	H
Primary Filter	C	H	H	C
Pre-Filter	P	P	P	P

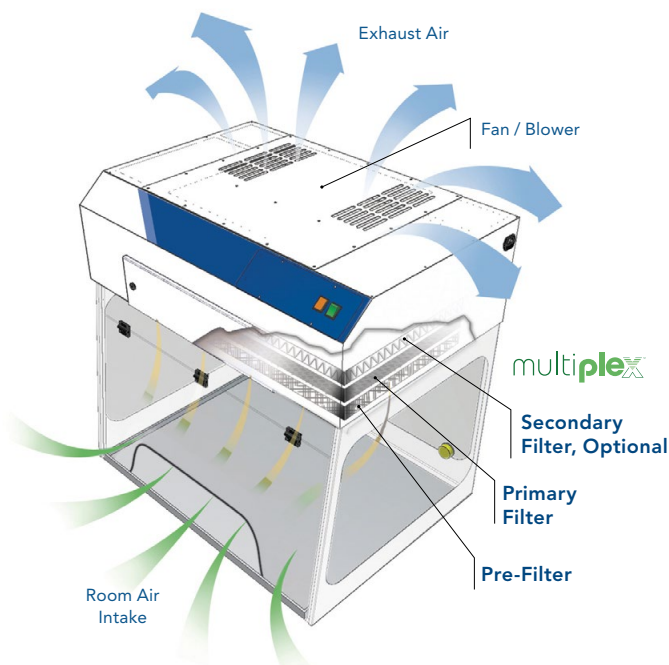
The system can be configured for the capture of acids, bases and particulates, such as biological aerosols, when paired with HEPA or ULPA filter cartridges.

AIRFLOW

Contaminated air is pulled through the Multiplex Filtration System. Activated carbon adsorbs chemical vapors and optional HEPA/ULPA filter cartridges capture particulates. Clean air is returned to the room.

The main filter cartridges are easy to replace with no tools required. The filter clamps tightly against the filter gasket to prevent filter bypass and maintain filter integrity.

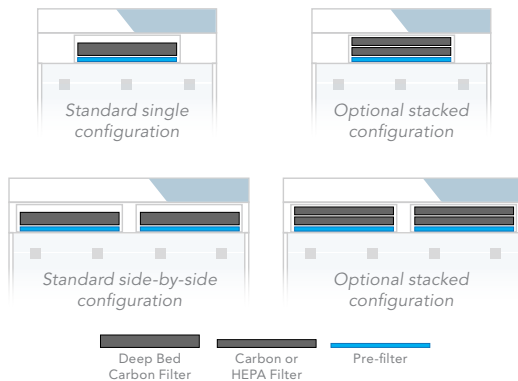
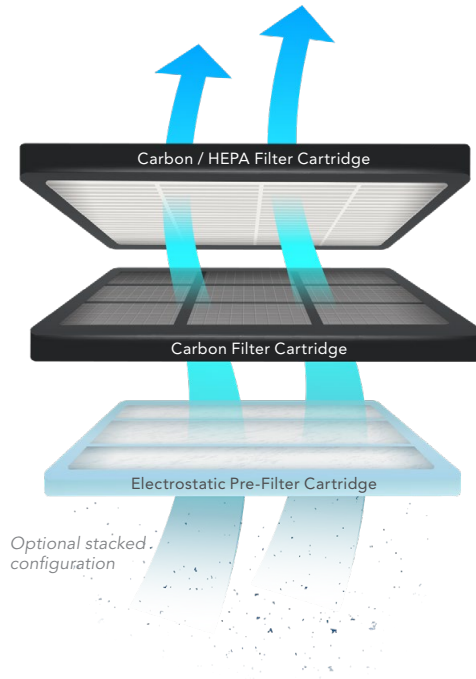
 **The pre-filter** cartridge may be replaced while unit is in operation.



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CARBON FILTER SELECTION

Single Filter Configuration: ASTS-(XXX)XT (Deep Bed)*

An extended life activated carbon filter cartridge designed for maximum adsorption efficiency when targeting a specific chemical application.

- Higher adsorption capacity
- Optimized for single chemical classes
- Recommended for dedicated-use environments
- Optional HEPA/ULPA filter for particulate protection

Stacked Filters (Optional) ASTS-(XXX) (Standard Depth)*

Stacked filter configuration allowing multiple carbon types to be combined for multi-application use.

- Simultaneous adsorption of different chemical classes
- Flexible broader protection configuration (e.g., solvents + acids)
- Ideal for shared labs or variable processes
- Optional HEPA/ULPA filter for particulate protection

Pre-Filter (Standard)

Electrostatic pre-filter cartridge removes particulates and aerosols to protect the main carbon filters.

- Extends filter life
- Maintains airflow performance
- Standard on all configurations

CONFIGURATION BY MODEL

P5-24XT/XTS and P5-36XT/XTS

Configured with a minimum of one primary (single) filter cartridge.

Optional: stacked filter configuration (two filter cartridges) for expanded chemical coverage.

P5-48XT/XTS

Configured with two primary filter cartridges installed side-by-side.

Optional: dual stacked filter configuration (four filter cartridges total) for expanded chemical coverage.

FILTER SUMMARY*

Filter Type	Application	Part# Single (XT-Deep Bed)	Part# Stacked (Standard Depth)
GP Plus!	General purpose solvents, organics, alcohols	ASTS-001XT	ASTS-001
ACI Plus!	Inorganic acids	ASTS-015XT	ASTS-015
ACM	Mercury vapor	ASTS-003XT	ASTS-003
AMM	Ammonia & amines	ASTS-012XT	ASTS-012
FOR	Formaldehyde & aldehydes	ASTS-013XT	ASTS-013

Filter Type	Application	Part#
HEPA	Powders, particulates, biologicals	ASTS-030 HEPA
ULPA	Powders, particulates, biologicals	ASTS-030U ULPA
PRF (Pre-Filter)	Removes particulates and aerosols to protect the main carbon filters	ASTS-PRF

* Other formulas may be available.

BEST USE CASE

Configuration	Key Benefit	Best Use Case
Single (XT)	Dedicated chemical application	Maximum efficiency & longest life
Stacked (Standard)	Multiple chemical types	Flexibility & broader protection

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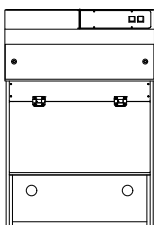
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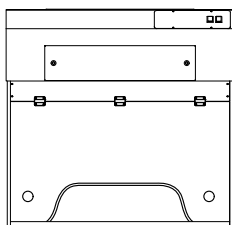
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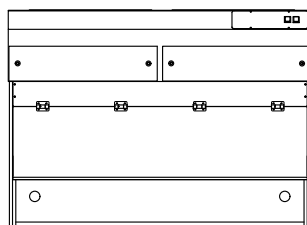
P5-24-XT



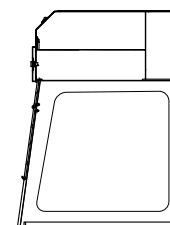
P5-36-XT



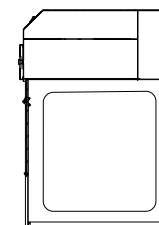
P5-48-XT



Standard Depth (XT)



Reduced Depth (XTS)



MODEL	VOLTAGE	DIMENSIONS			WEIGHT (LBS/KG)	
		Internal Height	External (W × D × H)	Shipping (W × D × H)	Net	Ship
Standard Depth Models (XT)						
P5-24-XT-A	120V, 60Hz	23.29" / 591.5 mm	24" × 27" × 35" / 610 × 676 × 889 mm	40" × 40" × 40" / 1016 × 1016 × 1016 mm	72 / 33	150 / 68
P5-24-XT-G	230V, 50Hz	23.29" / 591.5 mm	24" × 27" × 35" / 610 × 676 × 889 mm	40" × 40" × 40" / 1016 × 1016 × 1016 mm	72 / 33	150 / 68
P5-36-XT-A	120V, 60Hz	23.29" / 591.5 mm	36" × 27" × 35" / 914 × 676 × 889 mm	40" × 40" × 40" / 1016 × 1016 × 1016 mm	99 / 45	170 / 77
P5-36-XT-G	230V, 50Hz	23.29" / 591.5 mm	36" × 27" × 35" / 914 × 676 × 889 mm	40" × 40" × 40" / 1016 × 1016 × 1016 mm	99 / 45	170 / 77
P5-48-XT-A	120V, 60Hz	23.29" / 591.5 mm	48" × 27" × 35" / 1219 × 676 × 889 mm	55" × 40" × 45" / 1397 × 1016 × 1143 mm	138 / 63	230 / 104
P5-48-XT-G	230V, 50Hz	23.29" / 591.5 mm	48" × 27" × 35" / 1219 × 676 × 889 mm	55" × 40" × 45" / 1397 × 1016 × 1143 mm	138 / 63	230 / 104
Reduced Depth Models (XTS) for countertops 24" or less						
P5-24-XTS-A	120V, 60Hz	23.29" / 591.5 mm	24" × 24" × 35" / 610 × 610 × 889 mm	40" × 40" × 40" / 1016 × 1016 × 1016 mm	72 / 33	150 / 68
P5-24-XTS-G	230V, 50Hz	23.29" / 591.5 mm	24" × 24" × 35" / 610 × 610 × 889 mm	40" × 40" × 40" / 1016 × 1016 × 1016 mm	72 / 33	150 / 68
P5-36-XTS-A	120V, 60Hz	23.29" / 591.5 mm	36" × 24" × 35" / 914 × 610 × 889 mm	40" × 40" × 40" / 1016 × 1016 × 1016 mm	99 / 45	170 / 77
P5-36-XTS-G	230V, 50Hz	23.29" / 591.5 mm	36" × 24" × 35" / 914 × 610 × 889 mm	40" × 40" × 40" / 1016 × 1016 × 1016 mm	99 / 45	170 / 77
P5-48-XTS-A	120V, 60Hz	23.29" / 591.5 mm	48" × 24" × 35" / 1219 × 610 × 889 mm	55" × 40" × 45" / 1397 × 1016 × 1143 mm	138 / 63	230 / 104
P5-48-XTS-G	230V, 50Hz	23.29" / 591.5 mm	48" × 24" × 35" / 1219 × 610 × 889 mm	55" × 40" × 45" / 1397 × 1016 × 1143 mm	138 / 63	230 / 104

"A" — 120V, 60Hz
"G" — 230V, 50Hz

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SPECIFICATIONS

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PRODUCT SPECIFICATIONS

Filtration	P5-24-XT P5-24-XTS	P5-36-XT P5-36-XTS	P5-48-XT P5-48-XTS
Face Velocity - Variable - Industry Typical	80-100 fpm / 0.40 - 0.50 m/sec	80-100 fpm / 0.40 - 0.50 m/sec	80-100 fpm / 0.40 - 0.50 m/sec
Construction	P5-24-XT P5-24-XTS	P5-36-XT P5-36-XTS	P5-48-XT P5-48-XTS
Finish	<... White epoxy coated steel frame and head unit. Clear sides and back panel. ...>		
Blower	<... EC blower. ...>		
Controls	<... Main On/Off. ...>		
Monitoring	<... Filter blockage alarm, standard. ...>		
Efficiency	P5-24-XT P5-24-XTS	P5-36-XT P5-36-XTS	P5-48-XT P5-48-XTS
Power Consumption* 120V, 60Hz	30 watt	54 watt	71 watt
Power Consumption* 230V, 50Hz	30 watt	54 watt	71 watt
Lighting	<... LED. ...>		

* Watts at calibrated airflow setpoint with GP Filter(s) and prefilter installed.

Sash	P5-24-XT P5-24-XTS	P5-36-XT P5-36-XTS	P5-48-XT P5-48-XTS
Nominal Sash Working Height	8" / 203 mm	8" / 203 mm	8" / 203 mm

FILTER SPECIFICATIONS

Purair Model	P5-24-XT P5-24-XTS	P5-36-XT P5-36-XTS	P5-48-XT P5-48-XTS
Secondary/Stacked Filter, Optional*	(1)	(1)	(2)
Primary Filter*	(1)	(1)	(2)
Pre-Filter*	(1)	(1)	(2)

* For specific examples refer to Multiplex filtration system summary on [page 5](#).



Through our partner company [Filtco Filters](#), 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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OPTIONS AND ACCESSORIES

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OPTIONS & ACCESSORIES

Purair Model		P5-24-XT P5-24-XTS	P5-36-XT P5-36-XTS	P5-48-XT P5-48-XTS
FSA/AutoCAL Controller*	Hour counter and limited detection of low concentrations of hydrocarbon, some gases and organic acids. Provides full-time tracking of cabinet or exhaust system air velocities to ensure air movement stays within user-defined thresholds. Alert Mode: flashing, highly-visible red LED light with volume-adjustable audio alert.	ADV-P	ADV-P	ADV-P
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
Spill Tray (Polypropylene)	Removable for easy cleaning.	TRAY-P5-24 TRAY-P5-24-XTS	TRAY-P5-36 TRAY-P5-36-XTS	TRAY-P5-48 TRAY-P5-48-XTS
Dwyer Airflow Meter	Continuous display of face velocity.	DWYER	DWYER	DWYER
Base Stand, Mobile, With Casters	Mobile base stand, fixed height, with locking casters.	CART-25	CART-36	CART-50
Bottom Shelf	Provides a lower storage shelf for mobile base stand.	CART-25-SHELF	CART-36-SHELF	CART-50-SHELF
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
Polypropylene Construction*	Ductless fume hoods are available in all polypropylene construction.	P5-24-XT-A-PP P5-24-XT-G-PP P5-24-XTS-A-PP P5-24-XTS-G-PP	P5-36-XT-A-PP P5-36-XT-G-PP P5-36-XTS-A-PP P5-36-XTS-G-PP	P5-48-XT-A-PP P5-48-XT-G-PP P5-48-XTS-A-PP P5-48-XTS-G-PP
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.	P5-24-XT-A-UV P5-24-XT-G-UV P5-24-XTS-A-UV P5-24-XTS-G-UV	P5-36-XT-A-UV P5-36-XT-G-UV P5-36-XTS-A-UV P5-36-XTS-G-UV	P5-48-XT-A-UV P5-48-XT-G-UV P5-48-XTS-A-UV P5-48-XTS-G-UV

*Factory installed; specify when ordering.

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

"A" — 120V, 60Hz

"G" — 230V, 50Hz

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Certain options, customizations or configurations may not be included in UL-C-61010-1 listings. Contact Air Science for details.

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OPTIONS & ACCESSORIES

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Warranty Info.

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
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. This product may assist you with compliance or as part of your chemical hygiene plan. Please consult your Safety Officer and/or Industrial Hygienist.
Environment	ISO 14001:2015 ENERGY STAR® Partner



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