



## Green Performance Ductless Fume Hoods

- Superior Filtration Features and High Performance for Demanding Applications



60 watt<sup>1</sup> Purair model ECO-25

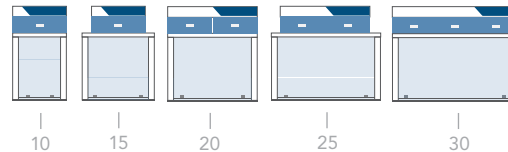


**37-67 watt<sup>1</sup>**

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



Operator    Particulate    Vapor



## CONTENTS:

- Product Overview (p.2)
- Design Features (p.3)
- Performance & Selection (p.4)
- Filtration Technology (p.6)
- Specifications (p.8)
- Options & Accessories (p.10)

PurairECO

Ductless Fume Hoods

10 • 15 • 20 • 25 • 30

PRODUCT OVERVIEW

2

## INTRODUCTION

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

Central to the ECO Series design is the innovative Air Science® Multiplex™ Filtration Technology and the Air Science exclusive EFT™ Enhanced Filtration Technology developed to assure universal protection in the work environment over the widest range of applications in the industry.

## APPLICATIONS

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

Capsule Filling / Chemical Sampling / Dental /  
Drug and Chemical Analysis / Forensics / Histology /  
Ink Fumes / LEEDS Installations / Light Grinding /  
Pharmaceuticals / Pipetting / Slide Staining /  
Spray Adhesives / Weighing



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.



## KEY FEATURES

- A high capacity air handling system delivers face velocity of 100 FPM.
- The filter assembly is easy to access and easy to change.
- Improved clamping prevents bypass leakage.
- Ergonomic arm rest for user comfort.

## 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.



59 watt<sup>1</sup> Purair ECO-20 shown with optional Utility Module.

120 6th Street, Fort Myers, FL 33907

Toll Free. 800-306-0656 | [www.airscience.com](http://www.airscience.com)

Specifications are subject to change without notice or obligation on the part of Air Science. For questions contact Air Science.

<sup>1</sup>) Energy consumption disclosure is based on internal testing with primary filters during normal operation. Power consumption published is nominal and dependent on cabinet size.

## CONTENTS:

- Product Overview (p.2)
- Design Features (p.3)
- Performance & Selection (p.4)
- Filtration Technology (p.6)
- Specifications (p.8)
- Options & Accessories (p.10)

PurairECO

Ductless Fume Hoods

10 • 15 • 20 • 25 • 30

PRODUCT OVERVIEW

3



## DESIGN FEATURES

- A. Filter I.D. Window:** A convenient, strategically placed front cover window shows the installed filter part number and installation date to encourage timely filter replacement.
- B. Steel Support Frame:** The chemical resistant epoxy coated steel frame adds mechanical strength. Optional all polypropylene construction is available if desired; see accessories.
- C. Tempered Glass Siding Sash:** When closed, the cabinet sash protects the contents from inadvertent external contact and better isolates the air from within. The sash is easy to open and close.
- D. Tempered Glass Side Walls:** Clear side panels allow ambient light into the work area and provide a less obstructed view of the work surface.
- E. Pass Through Ports:** Electrical cords and cables are safely routed into the cabinet through ports on the back.
- F. Electrostatic Pre-Filter:** The electrostatic pre-filter is accessible from inside the chamber and 91% effective down to 1-3 microns.
- G. 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).
- H. Internal Manual Speed Controller:** Authorized personnel may set the EC motor speed as desired.
- I. Stand:** Optional mobile cart with locking casters.
- J. Safety Filter:** The optional carbon or HEPA/ULPA safety filter adds an additional layer of protection.
- K. Track & Wheel System:** The filter glides in on a wheel and track system, then clamps tightly against the filter gasket to prevent filter tears and maintain filter integrity.
- L. Spillage Tray:** A black polypropylene spillage tray is removable for easy cleaning.
- M. Ergonomic Arm Rest:** An ergonomic arm rest improves user comfort and productivity.

## ADDITIONAL FEATURES

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



59 watt<sup>1</sup> Purair ECO-20 shown with optional Utility Module.

## CONTENTS:

Product Overview (p.2)

Design Features (p.3)

Performance & Selection (p.4)

Filtration Technology (p.6)

Specifications (p.8)

Options & Accessories (p.10)

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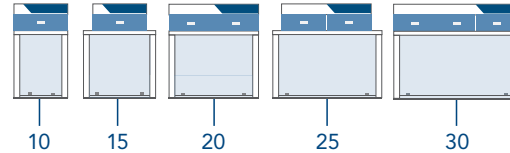
Ductless Fume Hoods

10 • 15 • 20 • 25 • 30

PRODUCT OVERVIEW

# 4

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 Filtration System](#) 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 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.

## SELECTION

Purair ECO products are available in 5 standard sizes, in metal or polypropylene construction, totaling 10 standard models.

## RELIABILITY

Internal systems are isolated from fumes, extending product life.



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



**67 watt<sup>1)</sup>** Purair ECO-30 shown with optional Base Stand with Casters, Utility Module and Equipment Rack.



## CONTENTS:

Product Overview (p.2)

Design Features (p.3)

Performance & Selection (p.4)

Filtration Technology (p.6)

Specifications (p.8)

Options & Accessories (p.10)

PurairECO

Ductless Fume Hoods

10 • 15 • 20 • 25 • 30

PRODUCT OVERVIEW

5

## 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.

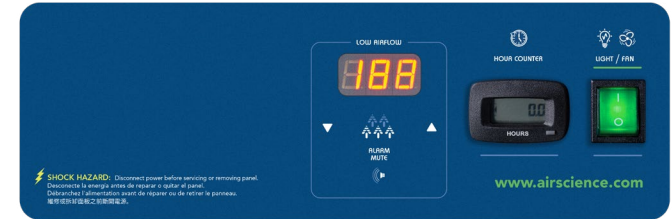
The **optional FSA controller** offers limited detection of low concentrations of hydrocarbon, some gases and organic acids. Audio and visual alarms alert users if filter saturation reaches preset thresholds. An Hour Counter and Low Airflow alarm are also included.

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.

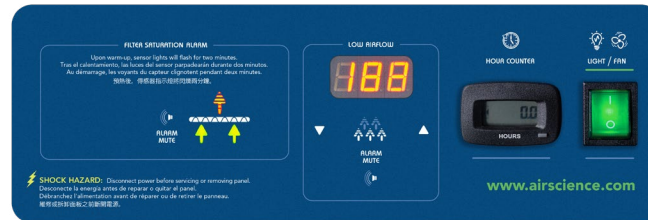
The **optional Monitair microprocessor controller** monitors and displays cabinet operating parameters, airflow, containment and offers limited detection of low concentrations of hydrocarbon, some gases and organic acids. Audio and visual alerts if conditions become unsafe and are all displayed on a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



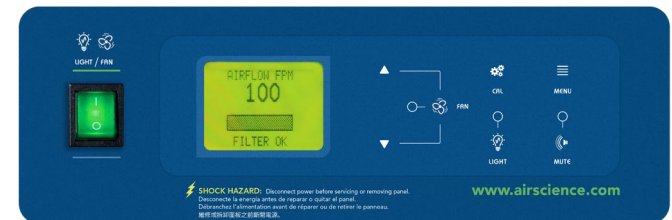
Advanced Control Panel



Autocal Control Panel



FSA/Autocal Control Panel



Monitair Control Panel



FSA Control Panel

**CONTENTS:**

- Product Overview (p.2)
- Design Features (p.3)
- Performance & Selection (p.4)
- Filtration Technology (p.6)
- Specifications (p.8)
- Options & Accessories (p.10)



**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 9](#).



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 ECO 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 99.97% at 0.3 microns and 99.999% at 0.12 microns respectively.

MULTIPLY FILTRATION SYSTEM, SUMMARY				
Application	Chemical	Powder/ Biological	Chemical & Powder	Chemical within Cleanroom
<b>Secondary/ Stacked Filter, Optional</b>	C	H	H or C	H
<b>Primary Filter</b>	C	H	H C	H C
<b>Pre-Filter</b>	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.

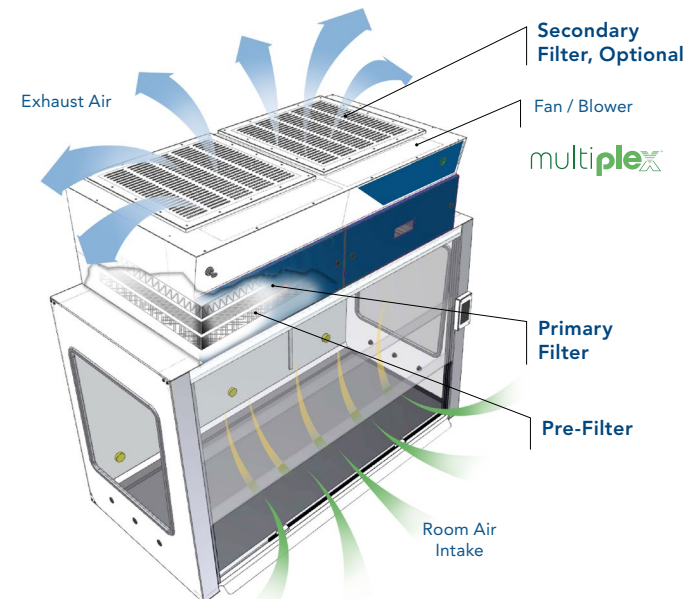
**AIRFLOW**

The Purair ECO 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.

**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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<sup>1)</sup> Energy consumption disclosure is based on internal testing with primary filters during normal operation. Power consumption published is nominal and dependent on cabinet size.

## CONTENTS:

- Product Overview (p.2)
- Design Features (p.3)
- Performance & Selection (p.4)
- Filtration Technology (p.6)
- Specifications (p.8)
- Options & Accessories (p.10)

PurairECO

Ductless Fume Hoods

10 • 15 • 20 • 25 • 30

PRODUCT OVERVIEW

7



## 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.

**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 (isopropanol, 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 NFX 15-211	
	IBR	Intertek
Product Manufacturer	Air Science	Brand E
Filter Type		Green
<b>Test Results</b>		
Isopropanol (alcohol)	2052	673
Cyclohexane (aliphatic hydrocarbon)	1531	914
Hydrochloric acid (inorganic acid)*	1205	2729*

*\*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.*



**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.



**SECUR.**  
safe disposal service

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

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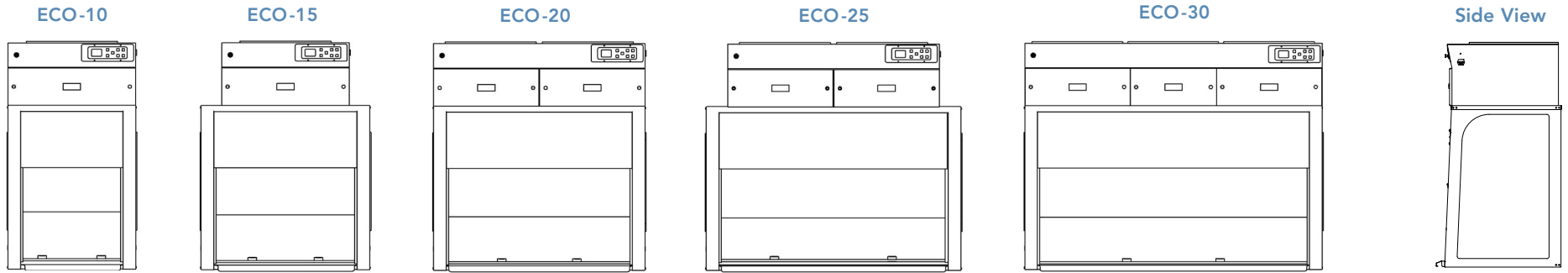
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**CONTENTS:**

- Product Overview (p.2)
- Design Features (p.3)
- Performance & Selection (p.4)
- Filtration Technology (p.6)
- Specifications (p.8)
- Options & Accessories (p.10)



MODEL	DIMENSIONS			WEIGHT (LBS/KG)		
	Metal	Internal Height	External (W x D x H)	Shipping (W x D x H)	Net	Ship
<b>Purair ECO Model</b>						
ECO-10	38" / 965 mm	30" x 28" x 53" / 762 x 711 x 1346 mm	48" x 40" x 60" / 1219 x 1016 x 1524 mm	161 / 73	214 / 97	
ECO-15	38" / 965 mm	40" x 28" x 53" / 1016 x 711 x 1346 mm	48" x 40" x 60" / 1219 x 1016 x 1524 mm	193 / 87	265 / 120	
ECO-20	38" / 965 mm	49" x 28" x 53" / 1244 x 711 x 1346 mm	60" x 40" x 60" / 1524 x 1016 x 1524 mm	276 / 125	375 / 169	
ECO-25	38" / 965 mm	59" x 28" x 53" / 1498 x 711 x 1346 mm	70" x 40" x 60" / 1778 x 1016 x 1524 mm	305 / 138	387 / 175	
ECO-30	38" / 965 mm	69" x 28" x 53" / 1752 x 711 x 1346 mm	80" x 40" x 60" / 2032 x 1016 x 1524 mm	405 / 183	466 / 211	



## CONTENTS:

- Product Overview (p.2)
- Design Features (p.3)
- Performance & Selection (p.4)
- Filtration Technology (p.6)
- Specifications (p.8)
- Options & Accessories (p.10)

### PRODUCT SPECIFICATIONS

Filtration	ECO-10	ECO-15	ECO-20	ECO-25	ECO-30
Face Velocity	100 fpm	100 fpm	100 fpm	100 fpm	100 fpm
Construction	ECO-10	ECO-15	ECO-20	ECO-25	ECO-30
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, standard. ...>				
Efficiency	ECO-10	ECO-15	ECO-20	ECO-25	ECO-30
Power Consumption*	37 watt	39 watt	59 watt	60 watt	67 watt
Lighting	<... LED. ...>				


\*All measurements are with Filter Type ASTM-030.

### FILTER SPECIFICATIONS

Purair Model	ECO-10	ECO-15	ECO-20	ECO-25	ECO-30
Safety Filter, Optional*	(1)	(1)	(1)	(2)	(2)
Primary Filter(s)*	(1)	(1)	(1)	(2)	(2)
Pre-Filter*	(1)	(1)	(1)	(2)	(2)

\* For specific examples refer to Multiplex filtration system summary on [page 6](#).

### 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	Iodine 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.

\*Other formulas may be available.



Through our partner company [Filtco Filters](#), Air Science is a single source supplier of all pre-filters, carbon filters and HEPA/UPLA filters used in our products.

**CONTENTS:**

- Product Overview (p.2)
- Design Features (p.3)
- Performance & Selection (p.4)
- Filtration Technology (p.6)
- Specifications (p.8)
- Options & Accessories (p.10)

OPTIONS & ACCESSORIES

Purair Model		ECO-10	ECO-15	ECO-20	ECO-25	ECO-30
Safety Filter*	An additional carbon, HEPA or ULPA safety filter exceeding ANSI/AIHA Z9.5 requirements can be installed after the main filter.	<... Safety filters for vapor or particulate protection are available for all models. ...> Contact Air Science for ordering information.				
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
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
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
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
Spill Tray (Stainless Steel)	Removable for easy cleaning.	TRAY-P10-SS	TRAY-P15-SS	TRAY-P20-SS	TRAY-P25-SS	TRAY-P30-SS
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	ASTM-030-SS
Base Stand, Mobile, with Casters	Mobile base stand, fixed height, with locking casters.	CART-30	CART-40	CART-50	CART-60	CART-70
Bottom Shelf	Provides a lower storage shelf for mobile base stand.	CART-30-SHELF	CART-40-SHELF	CART-50-SHELF	CART-60-SHELF	CART-70-SHELF
Base Cabinet, Fixed (Metal)	Provides storage space below.	CART-MCC-30	CART-MCC-40	CART-MCC-50	CART-MCC-60	CART-MCC-70
Base Cabinet, Fixed (Polypropylene)	Provides storage space below.	CART-SSC-30	CART-SSC-40	CART-SSC-50	CART-SSC-60	CART-SSC-70
Fire Safety Cabinet Base	Flame resistant safe storage for combustible and flammable liquids.	CART-FSC-30	CART-FSC-40	CART-FSC-50	CART-FSC-60	CART-FSC-70

Options & Accessories continued on next page.

\* Factory installed; specify when ordering.

**CONTENTS:**

- Product Overview (p.2)
- Design Features (p.3)
- Performance & Selection (p.4)
- Filtration Technology (p.6)
- Specifications (p.8)
- Options & Accessories (p.10)

OPTIONS & ACCESSORIES (CONTINUED)

Purair Model		ECO-10	ECO-15	ECO-20	ECO-25	ECO-30
Remote Control**	Wired controller, provides lower access height to comply with ADA requirements.	RC-P	RC-P	RC-P	RC-P	RC-P
Polypropylene Construction	Ductless fume hoods are available in all polypropylene construction.	ECO10-PP	ECO15-PP	ECO20-PP	ECO25-PP	ECO30-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
Service Fitting*	Cabinets can be fitted with service fixtures such as petcocks, faucets or valves.	<... SF-X. Specify service fitting type (faucet, valve, petcock) and location when ordering. ...>				
Stainless Steel Hanging Rod*	Hanging rod spans the width of the cabinet.	HANGR-P10	HANGR-P15	HANGR-P20	HANGR-P25	HANGR-P30
Equipment Rack	Lattice framework suitable for storing glassware and other laboratory apparatus.	RACK	RACK	RACK	RACK	RACK
Cup Sink, Mounts into Tray*	Polyethylene cup sink (3" x 5" x 9") is fitted into the base tray. Other sizes, materials available. Contact to order.	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-ECO10	UV-ECO15	UV-ECO20	UV-ECO25	UV-ECO30
Utility Module****	Side mounted module.	<... Includes (3) gas fixtures with remote knob on front (1) GFCI outlet. ...> Specify left or right hand side mounting when ordering.				

\* Factory installed; specify when ordering.

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

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

\*\*\*\* Option increases external width by 4".

**CONTENTS:**

- Product Overview (p.2)
- Design Features (p.3)
- Performance & Selection (p.4)
- Filtration Technology (p.6)
- Specifications (p.8)
- Options & Accessories (p.10)

**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
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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