



## INTRODUCTION

The Purair® Basic ductless fumehoods are a series of high efficiency products designed to protect the user and the environment from hazardous vapors generated on the work surface. At the heart of the Purair fume hood product line is the innovative Air Science Multiplex™ Filtration Technology that creates a safe work environment over the widest range of applications in the industry.

## CARACTERISTICS

- > Purair Basic products are available in 3 standard sizes, each with 4 configuration options and metal or polypropylene construction, totaling 24 standard models.
- > High capacity air handling system delivers face velocity of 100 FPM.
- > A low airflow alarm warns of insufficient face velocity.
- > The Air Science filter assembly is easy to access, easy to change.
- > A unique filter clamping design eliminates bypass leakage outside the cabinet.
- > Accessories include an optional filter saturation alarm.

## APPLICATIONS

- Compounding
- Enclosing balances, 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 and dental work

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# Purair<sup>BASIC</sup>

## Ductless Fume Hoods

- *Protects the operator from fume and particle hazards.*
  - *Easy to change filters.*
  - *Improved filter clamping eliminates by-pass leakage.*
  - *Low airflow alarm.*
- *Purair P5-36, shown with optional Filter Saturation Alarm (FSA) and air velometer.*

### 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. The Multiplex Filter broadens the range of applications. Carbon filters are available in more than 14 configurations for use with vapors or organic solvents, acids, mercury and formaldehyde. HEPA/ULPA filters can add to 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 from one location to the next with minimal down-time 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.** (selected models) Electronic airflow monitoring assures continuous safety. An electronic gas sensor monitors carbon filter performance.



**A. Filter I.D. Window:** A strategically placed front cover window shows the installed filter part number and installation date for convenience and to encourage timely filter replacement.

**B. Air Velometer:** (Optional) An analog air velocity meter in the field of vision of the user.

**C. 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.

**D. Control Panel:** Electronic controls and displays include switches for the blower and low airflow alarm.

**E. Steel Support Frame:** The chemical resistant epoxy coated steel frame adds mechanical strength. Optional all polypropylene construction is available if desired; see Accessories.

**F. Electrostatic Pre-Filter:** The 99.5% effective electrostatic pre-filter is accessible from inside the chamber to contain the release of any particulates that it traps. The pre-filter can be changed while the unit is operating to prevent operator exposure to chemical vapors.

**G. Pass Through Ports:** Electrical cords and cables are safely routed into the cabinet through ports on the back and side walls.

**H. Color:** The cabinet is white with blue trim; side and back panels are clear.

**I. Airflow Alarm:** A continuous air velocity monitoring system alerts the operator upon unacceptable values.

**J. Internal Manual Speed Controller:** Authorized personnel may set the centrifugal fan motor speed as desired.

**K. Stand:** Optional mobile cart with locking casters.

**L. Work Surface:** The internal work surface can be fitted with an optional polypropylene tray; see Accessories.

**M. Filter Door Key:** Filter access keys prevent unauthorized removal or accidental exposure to dirty filters.

### OTHER FEATURES:

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

**Standards Compliant:** Performance specifications and construction meet or exceed OSHA, ANSI and relevant international standards to assure operator safety.

**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 110V, 60Hz or 220V, 50Hz models.

**Steel Support Frame:** The chemical resistant epoxy coated steel frame adds mechanical strength. Optional all polypropylene construction is available if desired.



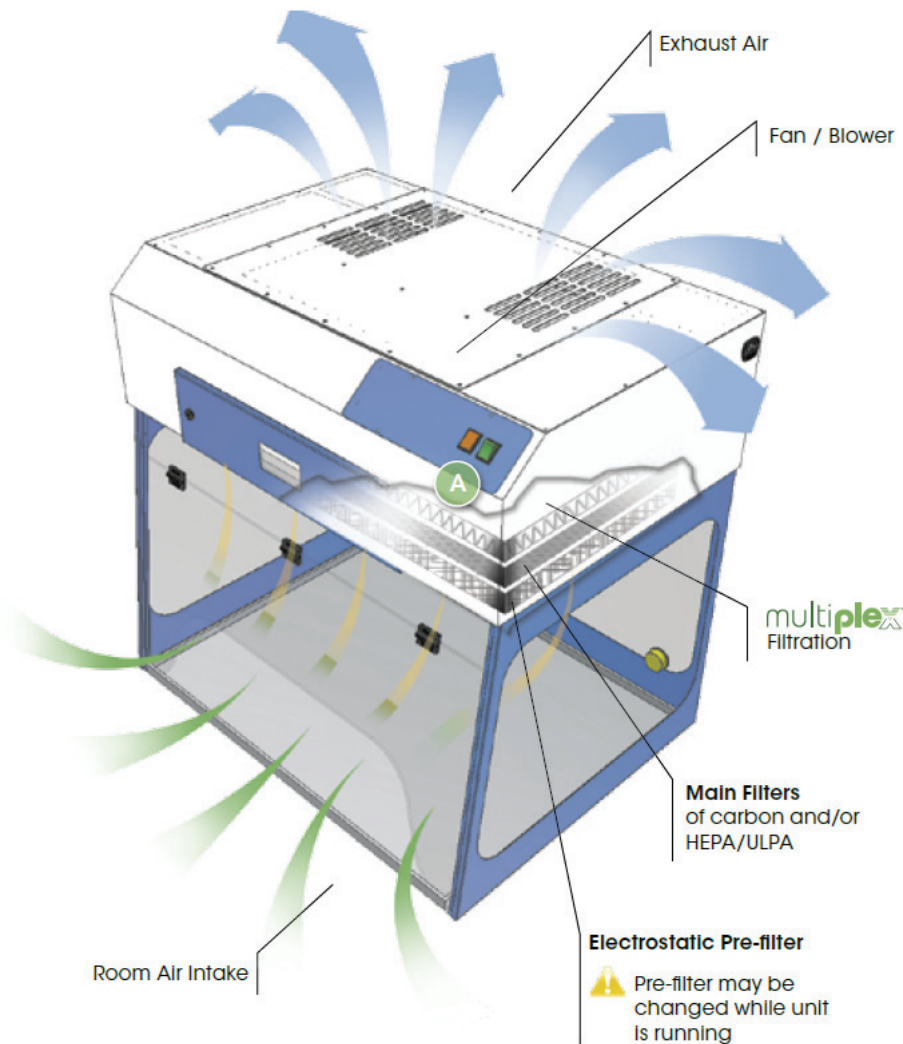
## THE AIR SCIENCE PERFORMANCE ADVANTAGE

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.

- > **Professional Quality.** Air Science fume hoods comply with current technical and safety regulations.
- > **Multiplex Filtration.** The Air Science Multiplex™ Filter offers a range of options for high performance.
- > **Industrial Components.** The cabinet frame and work surfaces are durable and chemically resistant.
- > **Reliability.** Internal systems are isolated from fumes, extending product life.



### PURAIR® AIRFLOW PATTERN



The Purair Basic Series 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 where activated carbon adsorbs chemical vapors and/or particulates if HEPA/ULPA filters are used. Clean air is returned to the room.

**A.** The main filter is easy to replace, no tools required. The filter clamps tightly against the filter gasket to prevent filter bypass and maintain filter integrity.

# TECHNICAL INFORMATIONS FOR MODEL 107000 WITH POLYPROPYLENE COATING, ACID VAPOUR FILTER AND STEAM FILTER ORGANIQUES

MODEL	DIMENSIONS			WEIGHT (lbs/Kg)	
	Internal Height	External (W x D x H)	Shipping (W x D x H)	Net	Ship
P5-36-XT	23.6" 600 mm	36" x 27" x 35" 914 x 676 x 889 mm	40" x 40" x 40" 1016 x 1016 x 1016 mm	99 / 45	157 / 71



## STANDARDS & COMPLIANCE

Quality Management Systems	ISO 9001
Chemical Fume Containment	ANSI/ASHRAE 110 1995
Carbon Filter Efficiency	BS 7989-2001 AFNOR NFX 15-211
Biological Safety Filter Efficiency HEPA and ULPA	IEST-RP-CC-0034.2 IEST-RP-CC007.1 IEST-RP-CC001-4 EN 1822
Electrical Safety	UL-C-61010-1 CE Mark ROHS Exempt under EEE Category 9
Product Design	ANSI Z 9.5-2003 ANSI Z 9.7-1998
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. All Air Science products meet this definition.
Environment	ISO 14001 Energy Star Partner

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