The World's Most Extensive Selection of Benchtop Laminar Flow Cabinets

- Simple, Effective Protection for Samples and Work Processes
- Uncompromised Performance, Economical Price
- Meets or Exceeds OSHA, ANSI, and Other International Standards

Laminar Flow Cabinets

60 watt

The single EC blower motor assures lower cost of ownership in one of the world's most energy efficient laminar flow cabinets.

36–76 watt

Air Science

“The World’s Most Extensive Selection of Benchtop Laminar Flow Cabinets”
INTRODUCTION

Purair® FLOW Series laminar flow cabinets are designed to protect the interior work zone from particulate contamination.

The Purair FLOW Series product line employs the Air Science exclusive Multiplex™ HEPA Filtration technology to sustain a contamination-free environment.

HEPA filtered air passes uniformly through the cabinet interior via vertical laminar flow. The airflow is oriented to prevent introduction of airborne particulates during normal use.

APPLICATIONS

Mycology and Food Microbiology \ Plant and Mammalian Cell Culture \ Clinical Pharmacies and Hospitals \ Cleanrooms \ Semiconductor Assembly \ Pharmaceutical Production \ Aerospace Contamination Control \ Medical Device Assembly \ General Research Protocols

FLOW SERIES

Purair FLOW Series cabinets offer proven ISO Class 5 product performance. Vertical laminar flow cabinets are intended for use in non-hazardous applications where user protection from biologicals or biohazardous byproducts is not required. The Purair FLOW Series includes a range of Air Science innovations integrated into the clean, simple, low-maintenance design. Cabinets offer flexible access to the interior work area and an economical price.

KEY FEATURES

- Provides sterile work zone for aseptic techniques.
- Air cleanliness meets and exceeds ISO Class 5.
- High efficiency ebm-papst EC blower.
- Energy saving LED lighting.
- Vertical laminar flow with HEPA filtration.
- Large front opening provides unrestricted access to the work zone.

36–76 watt

The single EC blower motor assures lower cost of ownership in one of the world’s most energy efficient laminar flow cabinets.

This product exceeds OSHA, ANSI and other International Certification Standards. Specifications are subject to change without notice.

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.
**DESIGN FEATURES**

A. **Control Panel**: The control panel includes an On/Off switch for simple operation.

B. **Main Filter**: HEPA filter with 99.99% efficiency for 0.3 micron particulates (ULPA optional).

C. **Pre-Filter**: Disposable polyester fiber pre-filter with 85% arrestance.

D. **Blower Motor**: ebm-papst EC blower.

E. **Stand**: Optional base stand converts to mobile cart with optional locking casters.

F. **Lighting**: Compact LED cabinet lamp located away from laminar flow area.

G. **Pass Through Ports**: Convenient rear-wall pass through ports for safe routing of instrument cords, cables, and leads.

H. **Filter Door Lock**: Prevents unauthorized removal or accidental exposure to saturated filters.

I. **Filter Clamp**: Wide knob filter clamps are conveniently located forward of the assembly. The clamps secure the filter to the plenum with even pressure to assure a tight seal and to simplify filter removal and replacement when required.

J. **Work Surface**: Optional polypropylene spill tray, available in white or black, or optional stainless steel spill tray available.

**ADDITIONAL 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, specify when ordering. Available in 120V, 60Hz or 230V, 50Hz models.

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Air Science FLOW cabinets 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 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.

Purair FLOW cabinets maintain up to 0.45 m/s (90 fpm) airflow velocity, measured 6” (150 mm) from the filter face.

The HEPA filters are easy to replace; no tools required.

DESIGN
Professional quality Air Science cabinets comply with current technical and safety regulations.

The cabinet frame and work surfaces, comprised of industrial components, are durable and chemically resistant with a microbial powder finish coating.

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

Stackable sections make cabinets highly portable and enable quick setup.

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

RELIABILITY
Purair FLOW cabinets incorporate energy-efficient ebm-papst EC blowers for maximum operational savings, low noise, and minimal vibration.

Air Science uses long-life HEPA filters without aluminum separators to increase filter efficiency, minimize the potential for leakage, and increase filter life.

CONTROL
The Standard integrated control panel features an On/Off switch for simple operation of the blower and light.

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AIRFLOW
Room air enters from the top of the cabinet through the disposable pre-filter where larger particles are trapped, increasing the service life of the main HEPA filter.

Air is forced evenly across the HEPA filter to deliver a flow of pure, uniform air within the work zone to dilute and flush airborne contaminants from the work area. A nominal filter face velocity of up to 0.45 m/s (90 fpm) ensures that there is a sufficient number of air changes within the work zone to eliminate cross contamination and to maintain optimum cleanliness.

Purified air travels across the work zone to the work surface in a vertical, unidirectional downflow stream, and then exits the work zone across the open cabinet front.

FILTER CONFIGURATION
P. The pre-filter may be replaced while unit is in operation.
H. The main filter is easy to replace; no tools required. The filter clamps tightly against the filter gasket to prevent filter bypass and to maintain filter integrity.

MULTIPLEX FILTRATION SYSTEM, SUMMARY

<table>
<thead>
<tr>
<th>Filter Type</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Filter</td>
<td>P</td>
<td>Disposable polyester fibers with 85% arrestance.</td>
</tr>
<tr>
<td>Main Filter</td>
<td>H</td>
<td>A self-contained filter designed to physically capture particles larger than 0.3 microns (HEPA) or 0.12 microns (ULPA).</td>
</tr>
</tbody>
</table>

Through our partner company Filco Filters, Air Science is a single source supplier of all pre-filters, carbon filters, and HEPA/ULPA filters used in our products and those of many other manufacturers.

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**Laminar Flow Cabinets**

**SPECIFICATIONS**

Contemporary Laminar Flow Cabinets

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Get a Quote.

1. Energy consumption disclosure is based on internal testing with primary filters during normal operation.
2. Power consumption published is nominal and dependent on cabinet size.

### PurAir FLOW-24

**Model:** FLOW-24

**Dimensions:**
- Nominal Width: 24" / 610 mm
- Internal Height: 24" / 610 mm
- Internal Depth: 24" / 610 mm
- External Dimensions: 24" x 24" x 35" / 610 x 610 x 889 mm
- Shipping Dimensions: 40" x 40" x 45" / 1016 x 1016 x 1143 mm

**Weight:**
- Net: 72 / 33 lbs
- Ship: 150 / 68 lbs

### PurAir FLOW-36

**Model:** FLOW-36

**Dimensions:**
- Nominal Width: 36" / 914 mm
- Internal Height: 24" / 610 mm
- Internal Depth: 24" / 610 mm
- External Dimensions: 36" x 24" x 35" / 914 x 610 x 889 mm
- Shipping Dimensions: 48" x 40" x 45" / 1219 x 1016 x 1143 mm

**Weight:**
- Net: 99 / 45 lbs
- Ship: 175 / 79 lbs

### PurAir FLOW-48

**Model:** FLOW-48

**Dimensions:**
- Nominal Width: 48" / 1219 mm
- Internal Height: 24" / 610 mm
- Internal Depth: 24" / 610 mm
- External Dimensions: 48" x 24" x 35" / 1219 x 610 x 889 mm
- Shipping Dimensions: 60" x 40" x 45" / 1524 x 1016 x 1143 mm

**Weight:**
- Net: 138 / 63 lbs
- Ship: 225 / 102 lbs

This product exceeds OSHA, ANSI and other International Certification Standards. Specifications are subject to change without notice.
### PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Filtration</th>
<th>FLOW-24</th>
<th>FLOW-36</th>
<th>FLOW-48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow</td>
<td>Vertical downflow; 0.3 m/s - 0.45 m/s (60 - 90 fpm).</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Pre-Filter</td>
<td>Disposable polyester fibers with 85% arrestance.</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Main Filter</td>
<td>HEPA efficiency, 99.99% at 0.3μm.</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Clamping</td>
<td>Screw compression clamp.</td>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Construction</th>
<th>FLOW-24</th>
<th>FLOW-36</th>
<th>FLOW-48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finish (exterior)</td>
<td>White epoxy-coated steel frame with white legs on cabinet sides.</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Windows</td>
<td>Acrylic, transparent.</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Blower</td>
<td>ebm-papst EC.</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Controls</td>
<td>Main On/Off switch for fan and lighting. Solid-state fan speed control with RFI filter maintains blower uniformity.</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Electrical</td>
<td>120V, 60Hz or 230V, 50Hz voltages available. Specify when ordering. Other voltage options available.</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Pass Through Ports</td>
<td>Two, standard, knock-out.</td>
<td>...</td>
<td>...</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Efficiency</th>
<th>FLOW-24</th>
<th>FLOW-36</th>
<th>FLOW-48</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption&lt;sub&gt;1&lt;/sub&gt;</td>
<td>36 watt</td>
<td>60 watt</td>
<td>76 watt</td>
</tr>
<tr>
<td>Lighting</td>
<td>LED lighting.</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>Noise, dBA&lt;sub&gt;2&lt;/sub&gt;</td>
<td>&lt; 63</td>
<td>&lt; 66</td>
<td>&lt; 66</td>
</tr>
</tbody>
</table>

<sup>1</sup> All measurements are with Filter Type ASTS-030.

<sup>2</sup> Measured 12” (30 cm) from the cabinet front and 15” (38 cm) above the work surface plane.
### OPTIONS AND ACCESSORIES

<table>
<thead>
<tr>
<th>Purair Model</th>
<th>FLOW-24</th>
<th>FLOW-36</th>
<th>FLOW-48</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULPA Filter</td>
<td>ASTS-030U</td>
<td>ASVLPS36-030U</td>
<td>2 × ASTS-030U</td>
</tr>
<tr>
<td>Spill Tray (Polypropylene)</td>
<td>TRAY-PS-24</td>
<td>TRAY-PS-36</td>
<td>TRAY-PS-48</td>
</tr>
<tr>
<td>Spill Tray (Stainless Steel)</td>
<td>SS-TRAY-PS-24</td>
<td>SS-TRAY-PS-36</td>
<td>SS-TRAY-PS-48</td>
</tr>
<tr>
<td>Base Stand, Mobile, with Casters</td>
<td>CART-24</td>
<td>CART-36</td>
<td>CART-48</td>
</tr>
<tr>
<td>Base Cabinet, Fixed (Metal)</td>
<td>CART-MCC-24</td>
<td>CART-MCC-36</td>
<td>CART-MCC-48</td>
</tr>
<tr>
<td>Base Cabinet, Fixed (Polypropylene)</td>
<td>CART-SSC-24</td>
<td>CART-SSC-36</td>
<td>CART-SSC-48</td>
</tr>
<tr>
<td>Fire Safety Cabinet Base</td>
<td>CART-FSC-24</td>
<td>CART-FSC-36</td>
<td>CART-FSC-48</td>
</tr>
<tr>
<td>Polypropylene Construction*</td>
<td>FLOW-24-PP</td>
<td>FLOW-36-PP</td>
<td>FLOW-48-PP</td>
</tr>
</tbody>
</table>

Factory installed; specify when ordering.

### 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**: IEST-RP-CC0034.2, IEST-RP-CC0007.1, IEST-RP-CC001-4, EN 1822
- **Electrical Safety**: UL-C-61010-1, CAN/CSA C22.2 61010-1:12, EN 61010-1:2010, CE Mark, ROHS Exempt under EEE Category 9
- **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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