EDU™ SERIES

Ductless Demonstration Fume Hoods

EDU™ Series Ductless Fume Hoods are Safe for Education, Vocational Training and Industrial Workforce Development
Meets or Exceeds OSHA, ANSI and other International Standards.

— EDUM-40

Now available with Utility Docking Station.

Air Science®
INTRODUCTION

The EDU Series Ductless Demonstration Fume Hoods are designed for individual and group applications where clear front, side and rear walls permit 360° visibility. The high efficiency carbon filtration and air management system protects both the user and the classroom environment from hazardous vapors generated on and above the work surface. The EDU series units are mounted on heavy-duty transfer carts and are sized to fit through standard doorways for easy transportation from lab to lab.

EDU Series Differential Features
Differential features within the EDU series are summarized below for easy selection.

Construction
- The cabinet exterior is 100% made in the U.S.A., fabricated with an epoxy-coated steel superstructure around clear front, side and rear panels.
- The front safety panels lift up on hinges for easy access to the interior.
- Locking casters permit complete portability from lab to lab.
- The overall width and height are sized to fit easily through standard doorways.
- A cart handle is located at each end to simplify moving (EDU-MOBILE and EDU-CLASSIC models only).
- Internal fluorescent lamps operate from the main power switch.

Docking Station
Prevents accidental disconnect of services to mobile fume hoods and prevents unauthorized access to main service connections which are securely locked away when not in use. Features include:
- Professional Construction
- Key Locked
- Recess or flush wall or bench mounted versions available
- Isolated single switch electrical sockets (13 amp)
- Quick release connections for: water, waste, and gas
- Optional RJ45 outlet

APPLICATIONS
- Science Class Lectures
- Safety Practice Demonstrations
- Laboratory Assignments

This Product Exceeds OSHA, ANSI and Other International Standards.
An optional docking station prevents damage from accidental disconnect of utility services to mobile fume hoods. See Accessories.

PRODUCT FEATURES:

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

B. Power Inlet: (right side, top)

C. Air Velometer: An analog air velocity meter in the field of vision of the user.

D. Gas Petcock: (optional)

E. Gooseneck Water Faucet: (optional)

F. Cup Sink: (optional) Integrated polypropylene cup sink.

G. Internal Diffuser

H. Integrated Centrifugal Fan Motor/Blower Assembly

I. Front Access: Multiplex™ filtration system, with filter clamp system.

J. 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.

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

L. Internal Fluorescent Lamp

M. Duplex Electrical Outlet: (optional) Externally mounted.

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

O. Main Controls: Petcock and water faucet controls.

P. Cart Handle: Located on the left and right sides of the EDU-MOBILE and EDU-CLASSIC models.

Q. 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.

R. Work Surface: The internal work surface is fitted with an optional polypropylene tray.

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

T. Double-Hinged Self-Locking Front Sash: When closed, the cabinet sash protects the operator with 100 FPM airflow. The sash is easy to open and latch.

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.

Integrated Control Panel: Easy reference to critical information with built-in audible and visual alarms for low airflow and filter use elapsed time.

No Installation, No Ducting Required: Self-contained, integrated systems ideal for fixed location or mobile applications.

Safe, Energy-Efficient Operation: All conditioned air is safely returned to the room, minimizing impact on facility HVAC costs.

EDU-MOBILE, EDU-M-40 shown
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 protection.

Industrial Components.
The cabinet frame and work surfaces are durable and chemically resistant.

Reliability.
Internal systems are isolated from fumes, extending product life.

This Product Exceeds OSHA, ANSI and Other International Standards.
### EDU SERIES DIFFERENTIAL SUMMARY

<table>
<thead>
<tr>
<th>Feature</th>
<th>EDU-MOBILE</th>
<th>EDU-CLASSIC</th>
<th>EDU-ADA</th>
<th>EDU-JUNIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Description</strong></td>
<td>Mounted on wheeled cart with small side storage cabinet. Blowers, filters and controls are mounted below the work surface to lower the center of gravity.</td>
<td>Mounted on a wheeled cart with an enclosed chemical storage area in the base cabinet.</td>
<td>Provides wheelchair access to the workstation front. Controls are mounted in a handheld remote box placed inside the workzone.</td>
<td>A basic workstation, mounted on wheeled cart.</td>
</tr>
<tr>
<td><strong>Airflow</strong></td>
<td><img src="image" alt="Airflow" /></td>
<td><img src="image" alt="Airflow" /></td>
<td><img src="image" alt="Airflow" /></td>
<td><img src="image" alt="Airflow" /></td>
</tr>
<tr>
<td><strong>Air Sampling Port</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Base Cabinet</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Dynamic Filter Chamber</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Airflow Alarm</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Hour Counter</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Optional Service Fixtures, Cup Sink</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Push/Pull Handle</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Dwyer Continuous Airflow Display</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Safety Filter</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Storage Compartment</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Track and Wheel Filter Insert/Remove Function</strong></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td><strong>Controls</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Utilities</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• A manually adjustable blower speed controller compensates for filter loading.</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>• A high-performance ebmpapst™ centrifugal fan provides continuous air velocity while the cabinet is in operation.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• A velometer located on the cabinet side offers a visual confirmation of air velocity.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Optional petcocks are available for gas and water.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Duplex power outlets are mounted outside the work area on the cabinet front.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Optional gooseneck faucet is positioned over an optional chemically-resistant polypropylene sink cup integrated into the work surface.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Pass-thru ports are located near the cabinet work tray on the left and right.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Operates on either 120V, 60Hz or 230V, 50Hz electrical service.</td>
<td></td>
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</tr>
</tbody>
</table>

**Controls**

An integrated control module located above the work surface puts all controls at eye level.

- A main On/Off switch controls power to the airflow system and lights.
- The electronic alarm system includes a low airflow indicator which warns of insufficient air velocity through the main filter.
- Electronic process monitoring assures continuous safety; an optional electronic gas sensor monitors main carbon filter performance.

Utilities

- Optional petcocks are available for gas and water.
- Duplex power outlets are mounted outside the work area on the cabinet front.
- Optional gooseneck faucet is positioned over an optional chemically-resistant polypropylene sink cup integrated into the work surface.
- Pass-thru ports are located near the cabinet work tray on the left and right.
- Operates on either 120V, 60Hz or 230V, 50Hz electrical service.

![Single Access](image) Dual Access](image)

For applications where student access is required, units can be fitted with dual access front and rear.
THE AIR SCIENCE
MULTIPLEX FILTRATION
TECHNOLOGY SYSTEM

The Multiplex filtration system consists of a pre-filter, main filter and optional safety filter to create a combination of chemical and physical architecture customized to each application. The mechanical design enhances safety, convenience and overall value.

• The electrostatic pre-filter is accessible from within the cabinet.

• A filter clamping mechanism allows for the filter to be easily installed and ensures an even seal at the filter peripheral face at all times to prevent bypass leakage.

• The filter chamber prevents contaminated air from contacting internal cabinet mechanisms.

• The main filter number and installation date are displayed in a front-access window.

• The Air Science carbon filtration technique is based on enhanced, activated carbon particle formulations from specially selected, naturally occurring raw material 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.

• The multiplex option permits one or more filtration options to be combined to meet a wider range of multiple-use applications. Multiplexing permits configuration for the capture of acids, bases and particulates such as biological aerosols when paired with HEPA or ULPA filters.

MULTIPLEX FILTRATION SYSTEM SUMMARY

<table>
<thead>
<tr>
<th>Pre-Filter</th>
<th>EDU-MOBILE</th>
<th>EDU-CLASSIC</th>
<th>EDU-ADA</th>
<th>EDU-JUNIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic</td>
<td>Protects the main filters from aerosols, mists, dust and particulates with filter efficiency superior to 99.5% down to 0.5 microns.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Main Filter</th>
<th>EDU-MOBILE</th>
<th>EDU-CLASSIC</th>
<th>EDU-ADA</th>
<th>EDU-JUNIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular</td>
<td>FILTCO™ Sourced. A single carbon filter containing activated carbon granules chemically formulated to capture one or more specific vapors or family of vapors.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Single: | Specify | Specify | Specify | Specify |
| Blended: | Specify | Specify | Specify | -- |
| Layered: | Specify | Specify | Specify | -- |
| Stacked: | -- | -- | -- | Specify |

<table>
<thead>
<tr>
<th>Main Filter</th>
<th>EDU-MOBILE</th>
<th>EDU-CLASSIC</th>
<th>EDU-ADA</th>
<th>EDU-JUNIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particulate</td>
<td>A self-contained filter designed to physically capture particles larger than 0.3 microns (HEPA) or 0.12 microns (ULPA).</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Specify | Specify | Specify | Specify |

<table>
<thead>
<tr>
<th>Safety Filter</th>
<th>EDU-MOBILE</th>
<th>EDU-CLASSIC</th>
<th>EDU-ADA</th>
<th>EDU-JUNIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon or HEPA/ULPA</td>
<td>Optional safety filter of carbon or HEPA/ULPA adds an additional layer of protection.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specify | Specify | Specify | -- |
**ENHANCED FILTRATION TECHNOLOGY**

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 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 NF X 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.

**EDU FILTER**

The high-efficiency filter used in the Air Science EDU is certified to absorb a range of chemicals commonly used in school curriculum associated with basic chemistry and environmental sciences.

**Retention Capacity (grams) for a Single Module at 1% of the TLV (Threshold Limit Value)**

<table>
<thead>
<tr>
<th>Specification</th>
<th>AFNOR NF X 15-211</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Testing Laboratory</strong></td>
<td>IBR Intertek</td>
</tr>
<tr>
<td><strong>Filter Type</strong></td>
<td>Air Science Green</td>
</tr>
</tbody>
</table>

**Test Results**

- 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. Inorganic acids the EFT filter provides a lesser but more realistic usable capacity in that with moderate to heavy acid applications, all ductless fume hoods made of metal are subject to corrosion and rust. In those applications Air Science recommends its polypropylene or total exhaust hoods with a specially formulated heavy duty acid filter.

**AVOID REVOLVING FILTERS**

Air Science strongly discourages the unsafe practice of revolving secondary back-up 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 back-up 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.

**FILTER SUMMARY**

<table>
<thead>
<tr>
<th>Formula</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GP Plus!</td>
<td>The most widely used filter in the range, primarily for solvent, organic and alcohol removal.</td>
</tr>
<tr>
<td>ACI Plus</td>
<td>Neutralizes volatile inorganic acid vapors.</td>
</tr>
<tr>
<td>ACR</td>
<td>Iodine and methyl iodide vapors. It is frequently used for iodination reactions with low level radioactive iodine.</td>
</tr>
<tr>
<td>ACM</td>
<td>Mercury vapor.</td>
</tr>
<tr>
<td>AMM</td>
<td>Removes vapors from dilute ammonia solutions and to remove low molecular weight amines.</td>
</tr>
<tr>
<td>SUL</td>
<td>Designed to remove hydrogen sulphide and low molecular weight mercaptans.</td>
</tr>
<tr>
<td>CYN</td>
<td>Removal of hydrogen cyanide. Many cyanide compounds will evolve HCN gas if acidified, so this filter is normally specified if working with any cyanide compound.</td>
</tr>
<tr>
<td>FOR</td>
<td>Designed to oxidize formaldehyde and glutaraldehyde fumes. It is widely used in hospital pathology laboratories.</td>
</tr>
<tr>
<td>ETH</td>
<td>Diethyl ether is adsorbed on activated carbon, but because of its low boiling point, local heat adsorption can reduce the capacity of the filter. Special impregnation allows a chemical reaction which increases the filter capacity.</td>
</tr>
<tr>
<td>EDU</td>
<td>Designed to handle chemicals normally used in a university level chemistry curriculum.</td>
</tr>
<tr>
<td>MIL</td>
<td>As the name implies, this filter is designed for military applications involving war gases.</td>
</tr>
<tr>
<td>HEPA/UPLA</td>
<td>Powders and particulates.</td>
</tr>
<tr>
<td>Universal filtration.</td>
<td></td>
</tr>
</tbody>
</table>
EDU® MOBILE AIRFLOW PATTERN

The EDU-MOBILE maintains a constant face velocity of 100 FPM in compliance with U.S.A. and International standards for safety and performance. Contaminated air is pulled through the Multiplex filtration system where activated carbon adsorbs chemical vapors, returning clean air to the room.

Low height and low center of gravity for stability when moving.

A. 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.

EDU® CLASSIC AIRFLOW PATTERN

The EDU-CLASSIC maintains a constant face velocity of 100 FPM in compliance with U.S.A. and International standards for safety and performance. Contaminated air is pulled through the Multiplex filtration system where activated carbon adsorbs chemical vapors, returning clean air 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 to maintain filter integrity.
EDU® ADA AIRFLOW PATTERN

EDU® JUNIOR AIRFLOW PATTERN

EDU-ADA, P10XL-CART-RC-P shown with Multiplex filtration system.

The EDU-ADA maintains a constant face velocity of 100 FPM in compliance with U.S.A. and International standards for safety and performance. Contaminated air is pulled through the Multiplex filtration system where activated carbon adsorbs chemical vapors, returning clean air 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 to maintain filter integrity.

EDU-JUNIOR, P5-24XT-CART shown with Multiplex filtration system.

The EDU-JUNIOR maintains a constant face velocity of 100 FPM in compliance with U.S.A. and International standards for safety and performance. Contaminated air is pulled through the Multiplex filtration system where activated carbon adsorbs chemical vapors, returning clean air 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 to maintain filter integrity.
### Product Specifications

**Ductless Demonstration Fume Hoods**

**EDU-MOBILE**

The EDU-MOBILE is mounted on a wheeled cart with a small side storage compartment. Blowers, filters, and controls are mounted beneath the work surface to lower the center of gravity and simplify moving from room to room.

Specifications are subject to change without notice.

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<table>
<thead>
<tr>
<th>MODEL</th>
<th>Internal Height</th>
<th>External (W x D x H)</th>
<th>Shipping (W x D x H)</th>
<th>WEIGHT (lbs/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Internal (W x D x H)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDU-M-40</td>
<td>31.5” 800 mm</td>
<td>39.5” x 28.5” x 77.5”</td>
<td>40” x 50” x 80”</td>
<td>270 / 123</td>
</tr>
<tr>
<td>EDU-M-48</td>
<td>31.5” 800 mm</td>
<td>49.5” x 28.5” x 77.5”</td>
<td>40” x 60” x 80”</td>
<td>370 / 168</td>
</tr>
<tr>
<td>EDU-M-60</td>
<td>31.5” 800 mm</td>
<td>59” x 28.5” x 77.5”</td>
<td>40” x 70” x 80”</td>
<td>470 / 213</td>
</tr>
<tr>
<td>EDU-MOBILE</td>
<td>31.5” 800 mm</td>
<td>59” x 28.5” x 77.5”</td>
<td>40” x 70” x 80”</td>
<td>470 / 213</td>
</tr>
</tbody>
</table>
### Ductless Demonstration Fume Hoods

#### EDU-CLASSIC

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIMENSIONS</th>
<th>WEIGHT (lbs / Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Height</td>
<td>External (W x D x H)</td>
<td>Shipping (W x D x H)</td>
</tr>
<tr>
<td>EDU-CLASSIC</td>
<td>31.5&quot; 800 mm</td>
<td>39.5&quot; x 28.5&quot; x 83.5&quot;</td>
</tr>
</tbody>
</table>

The EDU-CLASSIC has horizontal inflow with top mounted filters and exhaust. This model is mounted on a wheeled cart with an enclosed chemical storage area in the cabinet base.

Model EDU-CLASSIC, P15-ENC shown

#### EDU-ADA

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIMENSIONS</th>
<th>WEIGHT (lbs / Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Height</td>
<td>External (W x D x H)</td>
<td>Shipping (W x D x H)</td>
</tr>
<tr>
<td>EDU-ADA</td>
<td>31.5&quot; 800 mm</td>
<td>34&quot; x 28.5&quot; x 83.5&quot;</td>
</tr>
</tbody>
</table>

The EDU-ADA permits wheelchair access to the workstation. Controls are mounted in a handheld remote box that can be placed adjacent to or inside the work area.

Model EDU-ADA on mounting stand. Stand can be fitted with optional adjustable height legs (shown) or optional mobile locking casters.

Specifications are subject to change without notice.
The EDU-JUNIOR is a basic workstation mounted on a wheeled cart.

Model EDU-JUNIOR, P5-24XT-CART shown

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Internal Height</th>
<th>Dimentions (W x D x H)</th>
<th>Weight (lbs/Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU-JUNIOR</td>
<td>24” 610 mm</td>
<td>24” x 27” x 70” 610 x 686 x 1778 mm</td>
<td>40” x 40” x 80” 1016 x 1016 x 2032 mm</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>EDU Model</th>
<th>EDU-MOBILE</th>
<th>EDU-CLASSIC</th>
<th>EDU-ADA</th>
<th>EDU-JUNIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airflow CFM</td>
<td>220</td>
<td>220</td>
<td>145</td>
<td>135</td>
</tr>
<tr>
<td>Face Velocity FPM</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Lighting</td>
<td>⬤ Compact fluorescent lamp. ⬤</td>
<td>⬤ White epoxy steel frame and head unit. Clear sides and back panel. ⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>⬤ ebmpapst centrifugal fan. ⬤</td>
<td>⬤ 120V, 60Hz or 230V, 50Hz voltages available. Specify when ordering. Other voltage options available. ⬤</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blower</td>
<td>⬤ 120V, 60Hz or 230V, 50Hz voltages available. Specify when ordering. Other voltage options available. ⬤</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrical</td>
<td>⬤ Main On/Off. ⬤</td>
<td>⬤ Low airflow alarm, standard. ⬤</td>
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<tr>
<td>Electrical Switches</td>
<td>⬤ 1 lb / 0.45 kg (nominal). ⬤</td>
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<tr>
<td>Monitoring</td>
<td>⬤ Electrostatic, 1 lb / 0.45 kg (nominal). ⬤</td>
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</table>

Filter Specifications

| Pre-Filter | ⬤ Electrostatic, 1 lb / 0.45 kg (nominal). ⬤ |
| Main Filter | 22 lbs / 9.6 kg (EDU-M-48 and EDU-M-60 require two main filters) | 11 lbs / 5 kg |
### OPTIONS AND ACCESSORIES

<table>
<thead>
<tr>
<th>Product Options</th>
<th>EDU-MOBILE</th>
<th>EDU-CLASSIC</th>
<th>EDU-ADA</th>
<th>EDU-JUNIOR</th>
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<tr>
<td><strong>EDU Model</strong></td>
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<tr>
<td>Filter Saturation Alarm*</td>
<td>FSA</td>
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<td>Monitor Controller*</td>
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<td>EDU-M-48-PP</td>
<td>P10XL-CART-RC-P-PP</td>
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<td>EDU-M-60-PP</td>
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<td>Duplex Electrical Outlet*</td>
<td>AS-GFI</td>
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<td>Service Fitting</td>
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<tr>
<td>Cup Sink, Mounts into Tray*</td>
<td>SINK-P</td>
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<td>Docking Station</td>
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<td>Dual Access</td>
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<td>P15-ENCB-DA</td>
<td>P10XL-CART-RC-P-DA</td>
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* Factory installed; specify when ordering.

### STANDARDS AND COMPLIANCE

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<thead>
<tr>
<th>Category</th>
<th>Standard</th>
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<td>Quality Management Systems</td>
<td>ISO 9001</td>
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<td>Chemical Fume Containment</td>
<td>ANSI/ASHRAE 110-1995</td>
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<td>SafeBridge® Performance Verification (VE)</td>
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<td>Carbon Filter Efficiency</td>
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<td>AFNOR NF X 15-211</td>
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<td>Biological Safety Filter Efficiency HEPA and ULPA</td>
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<td>Product Design</td>
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<td>ANSI Z 9.7-1998</td>
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<td>OSHA, Occupational Safety and Health Administration</td>
<td>OSHA Standard - 29 CFR Safety and Health Regulations for General Industry, 1910.1450</td>
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<td>Occupational exposure to hazardous chemicals in laboratories. Part B, definition, laboratory type hood. All Air Science Products meet this definition.</td>
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<td>Environment</td>
<td>ISO 14001 ENERGY STAR® Partner</td>
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<td>Education (UK)</td>
<td>CLEAPPS® Instruction Approved (EDU-M)</td>
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