



EDUCATIONAL CATALOG

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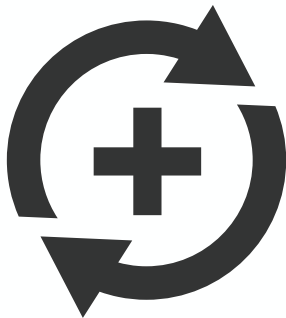
ABOUT US



OUR PURPOSE

IAP Air Products is committed to helping schools create safer, cleaner, and more effective learning environments. Our products are designed specifically to support welding, vehicle exhaust, dust collection, and other air quality needs found in today's technical education programs.

With thousands of products in stock and a focus on practical solutions for educational facilities, we make it easier for schools to equip their classrooms and shops with dependable air quality equipment.



OUR PROCESS

We believe schools deserve more than just a product — they deserve a partner. IAP works through a network of experienced industrial and educational equipment dealers who understand the unique needs of schools, instructors, and technical programs.

From product selection and project planning to purchasing and installation, we work alongside our dealer partners to make the process simple. We also actively help identify opportunities and connect schools with qualified representatives who can provide local support.



OUR PROMISE

When you choose IAP, you can count on responsive people, quality products, and dependable support. Our team brings years of experience in industrial air quality and understands the demands of today's educational environments.

We maintain a large inventory of core products so schools and dealers don't have to wait months for critical equipment. From the first conversation through installation and beyond, our goal is simple: make it easy to get the right equipment, when you need it, from people who know the industry.

OUR BRANDS

BUILT FOR WELDING EDUCATION

WELD SHELL welding booths are designed to give instructors and students a dedicated, professional workspace for welding and fabrication training. Built with durability and everyday shop use in mind, WELD SHELL booths provide a practical foundation for creating organized welding stations while helping manage welding fumes at the source.

Available in multiple sizes and configurations, WELD SHELL can be adapted to fit a wide range of technical education programs — from high school welding labs to career and technical centers and post-secondary training facilities.

Durable construction. Professional workspaces. Built for the next generation of skilled trades.



BRING FUME EXTRACTION TO WHERE THE WORK HAPPENS

ELEVENT is a portable welding fume extractor designed for the flexibility today's educational shops need. Its compact, mobile design allows instructors to position fume extraction directly where welding is taking place without dedicating every workstation to a permanent extraction system.

Ideal for classrooms, training labs, maintenance areas, and flexible shop environments, ELEVENT gives schools a simple way to provide source capture wherever it is needed.

Portable. Powerful. Practical. A smarter way to bring fume extraction into the classroom.



BUILT FOR AUTOMOTIVE EDUCATION

Viper Vex provides vehicle exhaust extraction solutions designed for automotive classrooms, technical training centers, and school maintenance facilities. From exhaust hoses and reels to complete extraction systems, Viper Vex helps keep harmful vehicle exhaust away from students and instructors while allowing vehicles to be safely operated indoors.

With solutions for everything from individual service bays to larger automotive training facilities, Viper Vex makes it easier to build a cleaner, safer environment for hands-on automotive education.

Purpose-built for automotive training. Designed to keep students focused on learning, not exhaust.



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Fume extraction welding booth designed for welding trade schools, technical colleges and facilities needing a welding solution.



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3

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Vehicle exhaust extraction system perfect for garages that have running vehicles.



4

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Ambient air cleaner that removes ambient pollutants without the need of a dust collector and ducting.



1

WELD SHELL

WELDING BOOTH

Fume extraction welding booth designed for welding trade schools, technical colleges and facilities needing a welding solution.



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WELDING BOOTH MODELS

MODEL NUMBER	INNER DIM	OUTER DIM
WELDSHELL-4X4	48"x46.5"x78"	51"x48"x78"
WELDSHELL-5X5	60"x58"x78"	63"x59.5"x78"
WELDSHELL-6X6	72"x72"x78"	75"x73.5"x78"

APPLICATIONS

1

Easiest installation among competitors, utilizing pre-installed rev-nuts to limit excessive hardware

2

Reinforced side panels encased in dual layered metal sheeting for maximum strength and durability

3

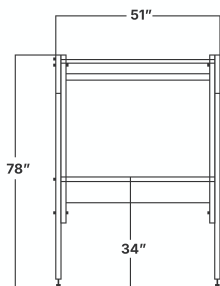
Unique design can reduce cost up to 25% by having the ability to share side panels

4

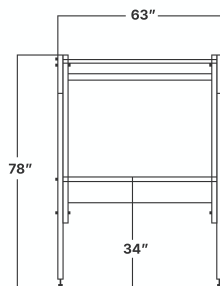
Comes standard with curtain rod and 14 gauge rear bolt in table

5

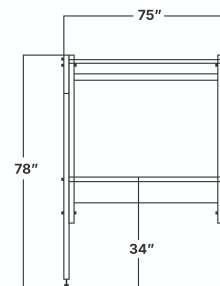
Comprehensive range of accessories to create a complete package



WELDSHELL-4X4



WELDSHELL-5X5



WELDSHELL-6X6

COLOR OPTIONS



IAP BLACK



IAP BLUE

ACCESSORIES

LED LIGHT KIT:

WELDSHELL-LK:

2' LED Light Bars for 4×4,
5×5 or 6×6 Welding Booths



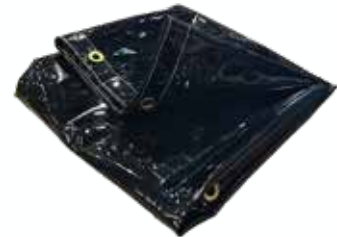
WELDING CURTAINS:

WELDSHELL-WC-4X4/5X5:

Shade 8 (Black) Welding
Curtains for 4×4 and 5×5
Welding Booths

WELDSHELL-WC-6X6:

Shade 8 (Black) Welding
Curtains for 6×6 Welding
Booths



FUME ARM CORNER MOUNT:

WELDSHELL-FA-BR-04:

This option allows for 4" fume
arms to have a supporting wall
behind your booth.

WELDSHELL-FA-BR-06/08:

This option allows for 6" and 8"
fume arms to have a supporting
wall behind your booth.



J-HOOK:

WELDSHELL-JH:

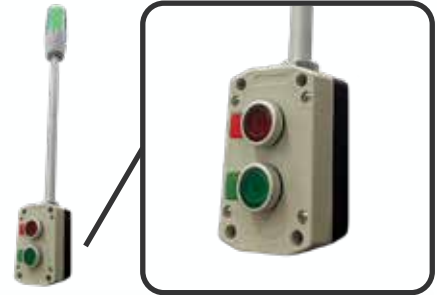
These simple J-Hooks connect over the top of either the side or back panels, allowing for easy organization of gear (helmets, jackets, etc.).



STUDENT SAFETY ALERT LIGHT:

WELDSHELL-SSAL:

The Student Safety Alert Light mounts easily to the side of a welding booth, allowing students to clearly signal their status to the instructor. The unit includes a prewired 120V power cord for quick and convenient setup.



STAND-ALONE TABLES:

WELDSHELL-SAT-FS (Full Steel):

Stand-Alone Table for 4×4 and 5×5 welding booths to replace standard bolt-in table. Full steel top. Comes in black coloring.



WELDSHELL-SAT-FG (Full Grate):

Stand-Alone Table for 4×4 and 5×5 welding booths to replace standard bolt-in table. Full Grate Top. Comes in black coloring.



WELDSHELL-SAT-HSHG (Half Steel/Half Grate):

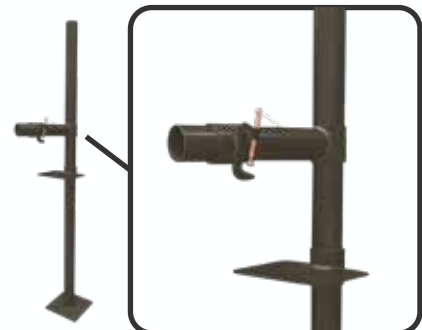
Stand-Alone Table for 4×4 and 5×5 welding booths to replace standard bolt-in table. Half steel/half grate top. Comes in black coloring.



PIPE WELDING STAND:

WELDSHELL-PWS:

Pipe Welding Stand for Welding Booth. Stands at 84" height. Includes adjustable welding table, adjustable horizontal pipe arm with clamp and vertical adjustment holes with pins for locking.



FUME ARM FILTRATION (FAF):

Captures weld fume/smoke and recirculates clean air back into the room without the need of any ductwork. Models offered in 4", 6" and 8" arm diameter.



DUAL FUME ARM FILTRATION:

Designed to support two fume arms using a single fan and filter system-making them an efficient solution for multiple weld booth setups. Combining dual extraction into one system helps conserve space and reduce overall costs. Models are offered in 4", 6" and 8" arm diameter.



FUME ARM WITH DIRECT MOUNT FAN:

Can be mounted directly to the fume arm and exhausted outside. This allows direct control of each arm being used. Models are offered in 4", 6" and 8" arm diameters.



HANGING FUME ARMS:

IAP Hanging Fume Arms can be tied into a central exhaust fan or fume collector system. These arms come in a variety of diameter and lengths depending on the application. Models are offered in 4", 6" and 8".



2

ELEVENT

PORTABLE FUME EXTRACTOR

Portable fume extraction unit built for the shops that never stay still.



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TECHNICAL DATA

Nominal Airflow	400 cfm
Motor	1HP / 110V-1P
Dimensions (Machine)	40.2" x 24.5" x 31.7"
1st Filtration	Aluminum Mesh
2nd Filtration	V-Bank Filter, 95%, MERV 15
3rd Filtration (Optional)	HEPA, 99.97%
Noise @ 5ft.	67.5 dB

APPLICATIONS

1

Welding Fume Collection

2

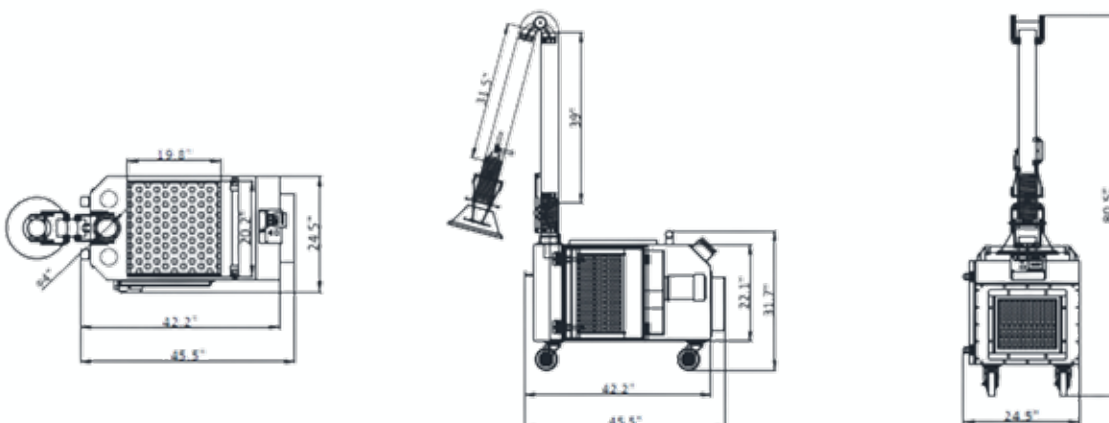
Grinding Dust Collection

3

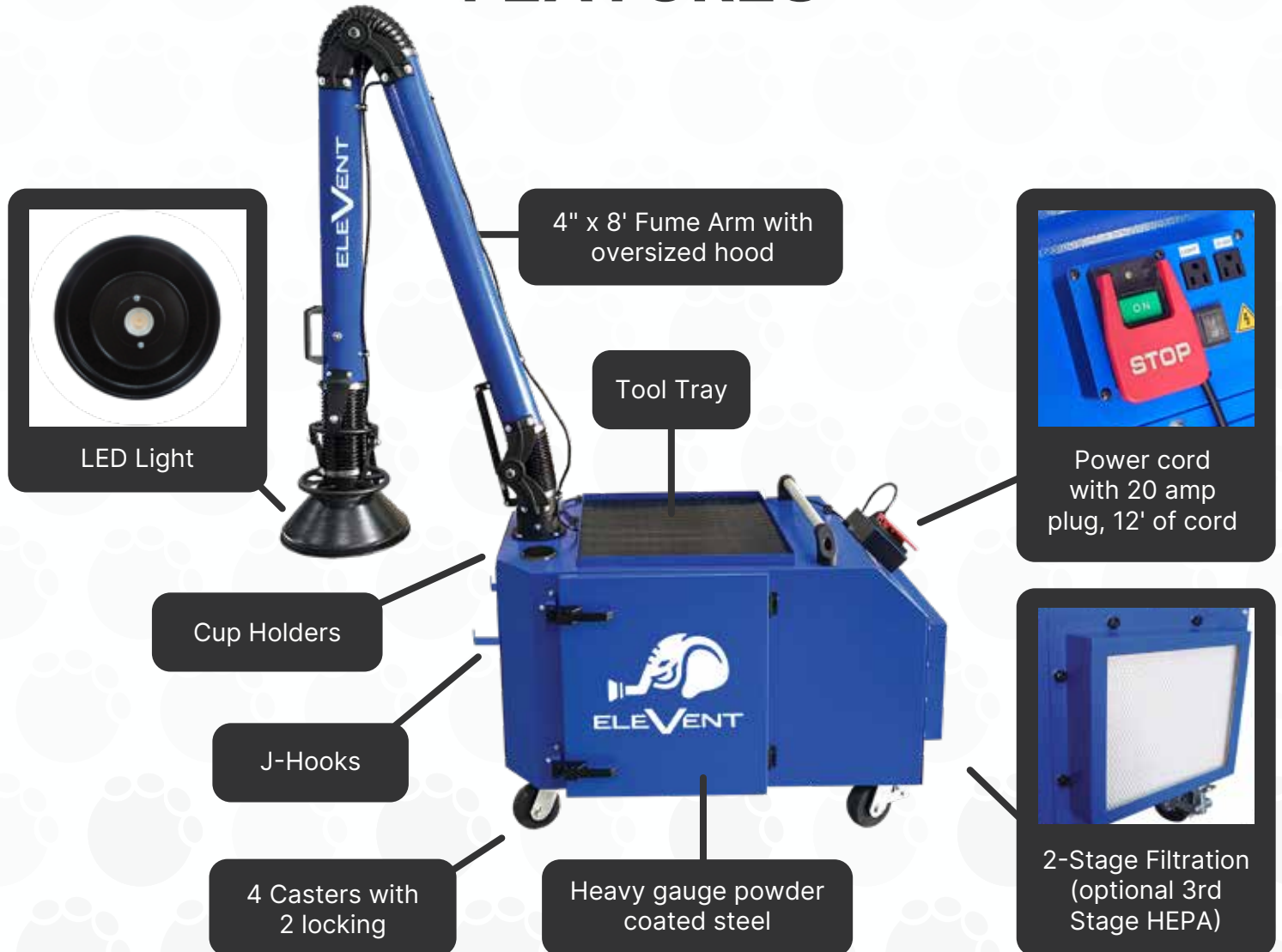
Dry Dust Collection

4

Fume Collection



FEATURES



ACCESSORIES

HEPA Air Filter:

ELEVENT-HER:

ELEVENT, HEPA Replacement Filter. MERV 16. (1) per unit.



3

VIPER VEX

EXHAUST EXTRACTION SYSTEM

Vehicle exhaust extraction system perfect for garages that have running vehicles.



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TYPICAL APPLICATIONS

1

New & used car dealerships

2

Truck maintenance facilities

3

Off-road vehicle repair shops

4

Military equipment

5

RV's, motorcycle repair shop

6

Engine testing facilities

7

Small motor repairs

PRODUCT RANGE

IAP has a wide range of vehicle fume exhaust systems to suit the different applications in the automotive industry. The most common exhaust set up are hose reels, which are available in regular spring recoil or motorized. Motorized reels are required for use with larger and longer hoses.

Viper Vex hose reels can be set up with hoses as large as 8" diameter and lengths that can reach 33'. Along with the hose reels is the offering of a hose balancer with saddle for simple hose drop systems.

FEATURES

1

Heavy Duty Spring Systems
(Spring Hose Reels)

2

Direct Drive Tube Motors:
Eliminates Gear and Chains on
Motorized Hose Reels

3

Built-In Mechanical Dampers
(Spring and Motorized Reels)

4

Available Hoses up to 1200F

5

Wide Variety of Tail Pipe
Adaptors

6

Rugged Powder Coated Steel
Construction

SPECIFICATIONS

Vehicle Type	Recommended Air Volume CFM	Recommended Hose Diemeter (Inches)	Recommended Hose Temperature (°F)
Small to full size cars	200-300	4	200-300
Performance sports cars	200-500	4-5	500-700
Large pick-up trucks / SUV's	350-400	4-5	500-700
Diesel trucks / tractor trailers	700-800	6	600-1000
Heavy duty machinery	1000-1200	8	1200
Tanks or armored military vehicles	1000-1200	8	1200

PRODUCTS

MOTORIZED HOSE REEL:

A motorized hose reel streamlines exhaust extraction with automated functionality. Powered by an electric motor, it swiftly extends and retracts hoses, offering unparalleled convenience in busy maintenance bays or garage settings.



SPRING HOSE REEL:

The Spring Hose Reel simplifies exhaust extraction in maintenance bays/garages with its easy-to-use operation. The manual spring mechanism allows users to effortlessly extend and retract hoses, effectively managing fumes emitted during vehicle or machinery operation.



HOSE BALANCER:

The Hose Balancer elevates the exhaust hose with ease, minimizing potential damage to the hose and surrounding equipment. The spring tension lock within securely holds the wire in place, ensuring safe operation while also allowing adaptable operation in various usage areas.



DIRECT MOUNT FAN:

The Direct Mount Fan works in conjunction with the 4", 5" and 6" Hose Reels (Respectively, 3/4HP, 1HP and 1.5HP Motors). This allows you to securely mount your fan to the side of the Spring or Motorized Hose Reels and easily exhaust your air vertically through the roof or horizontally through the wall. The 2HP and 3HP Fans are used as "Remote Mount" Fans.



OPTIONAL ACCESSORIES:

- Various Adaptors for Vehicle Tailpipes
- Micro-switches for Automatic Start/Stop
- 350F - 1200F Hoses
- Direct and Remote Mount Fans
- Remotes / Control Panels for system integration.

TAIL PIPE ADAPTERS

SPRING LID:

The exhaust extraction spring lid features a sturdy construction with a spring loaded mechanism, ensuring a tight seal to prevent leaks in the exhaust extraction system. This design effectively contains exhaust fumes, contributing to cleaner and safer working environments in automotive workshops and testing facilities.



VICE GRIP:

The Vice Grip Nozzle for exhaust extraction is a precision-designed component for efficient fume removal in automotive workshops. Its Vice Grip gives it a secure fit which minimizes leaks, enhancing suction effectiveness and ensuring cleaner, safer working environments.



STACK ADAPTER:

This specialized tool serves as a crucial link, securely connecting vehicle exhaust pipes with extraction hoses to efficiently remove fumes during automotive maintenance or testing. It plays a pivotal role in maintaining cleanliness and safety within workshops and testing facilities.



NEW CAR NOZZLE:

The new car nozzle for exhaust extraction is a precision designed component for efficient fume removal in automotive workshops. Its secure fit minimizes leaks, enhancing suction effectiveness and ensuring cleaner, safer working environments.



FLEXIBLE HOSE

Note: Due to a wide variety of vehicle engines, IAP cannot show all flexible hoses available. Contact factory for selection.

VEX-HOSE-350:

Black neoprene coated polyester fabric with steel helix

Diameters: 4", 5"

Length: 16', 25', 33'



VEX-HOSE-600:

Double layered, heat resistant, glass fabric hose with internal steel helix

Diameters: 4", 5", 6", 8"

Length: 16', 25', 33'



VEX-HOSE-850:

Silver exhaust hose with external helix. 850F normal with 1000F+ spike temp

Diameters: 5", 6", 8"

Length: 16', 25', 33'



VEX-HOSE-1000:

Internal heat resistant glass fabric with outer gray high-temp fabric wrapped with steel helix

Diameters: 6", 8"

Length: 16', 25', 32'



VEX-HOSE-1200:

Double layered Red heat resistant fabric.

Reinforced with stainless steel wire and steel helix

Diameters: 8"

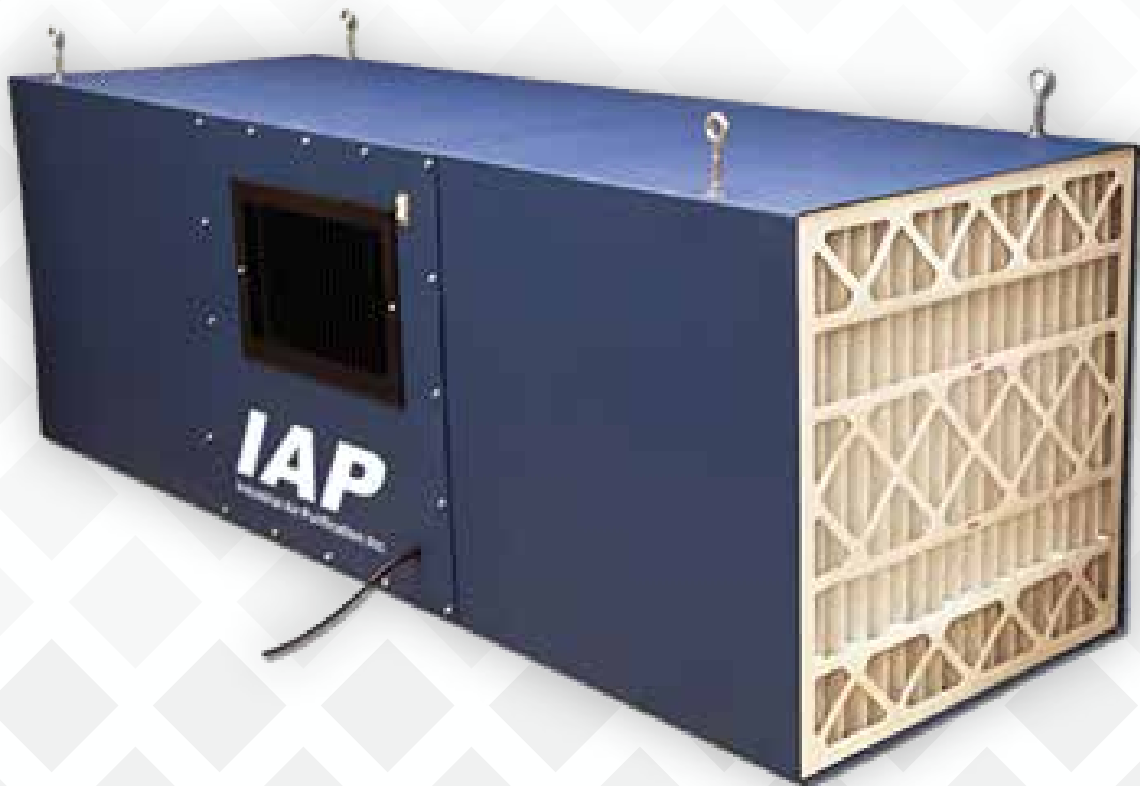
Length: 16', 25', 33'



4

AMBIENT AIR CLEANER

Ambient air cleaner that removes ambient pollutants without the need of a dust collector and ducting.



SPECIFICATIONS

Dimensions	24" W x 24" H x 72" L
Weight	180 lbs
Power	115V/1/60
Amps	10.2
Wiring	3 Prong With 10 Feet of Cord
CFM - Maximum	3000
Motor	3/4 HP Direct Drive
Cabinet	16 Gauge Steel
Finish	Blue Powder Coat
Speed Control	Low and High Toggle Switch
Air Flow	T-Flow Pattern
Decibals	68 dBA at 5'
Warranty	1 Years Limited, Excluding Filters

Part #	Filtration
A-3000-3/4HP-1P	(2) 24 × 24 × 4, Pleated Pre Filter (2) 24 × 24 × 22, 65% Bag Filter

Part #	Options
A-MAG	Magnehelic Pressure Gauge 0-2" W.C.
A-WMK	(2) Wall Mounting Brackets
A-CMK	Hanging Kit (chain, eye bolts, and snap links)

APPLICATIONS

Provides efficient removal of irritating contaminants such as smoke, chemical fumes, mist, or dust

KEY BENEFITS

1 Avoid health and safety hazards that cause respiratory ailments

2 Reduce make-up air requirements by cleaning and re-circulating air versus exhausting outside

3 Reduce housekeeping by filtration with airborne particles that settle on equipment

4 Lower in cost for the amount of cfm

6 Assists meeting OSHA standards (based upon filtration and design considerations)

Method of Operation	Dirty air enters both sides of the collector and is trapped in the filters and clean air is exhausted in a T-Air flow pattern.
Installation	Suspend from the ceiling with chains/threaded rod or hang on the wall with brackets.

SIZING EXAMPLE

A company performs orbital sanding in their production process.

Several employees sand all day long. The airborne dust irritates employees in the room, along with creating a housekeeping issue. The room is 60' x 40' x 15' tall = 36,000 cubic feet.

36,000 x "air changes per hour needed." Use 6 for light dust/fumes/smoke, 8 for moderate and 10 for heavy. $36,000 \times 10$ (heavy) = 360,000.

360,000 divided by 60 minutes per hour = 6,000 cfm required for all the air in the room to cycle through the filters 10 times an hour. The A-3000-3/4HP-1P is rated for 3,000 cfm, so 6,000 divided by 3,000 = 2 units required. For this application we would recommend (2) A-3000-3/4HP-1P staggered in the room. To create a more circular airflow pattern in the room, (4) units could be used.



CONTACT US

Whether you have questions about our products, need help finding the right air purification solution, or are ready to discuss your next project, the team at IAP Air Products is here to help. We work with customers to understand their specific needs and provide practical solutions for cleaner, safer and more efficient work environments. Reach out to us today and let's discuss how we can help with your air purification needs.



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