



E-Z Arm[®] High Flow Extractor Systems

Market Driven Product Solutions

Driven by technological innovations and responsive customer service, Airflow Systems, Inc.® is one of the leading air filtration companies in the United States. Recognized by *Inc.* magazine as one of the fastest growing companies in the U.S., Airflow Systems has helped a diverse range of customers save millions of dollars as facilities managers, shop foremen, and others responsible for worker productivity and safety, seek answers to indoor air quality challenges.

A Network of Service and Support

Your job is maintaining plant efficiency, not worrying about in-plant air filtration. Airflow Systems has a network of over 80 distributors and dealers worldwide. Your Airflow Systems distributor will deliver solutions to your air filtration requirements with products and systems specifically for your application. This network is backed by experienced technical support engineers and a proactive customer service staff that continues to work for you after your system is installed.



Airflow Systems, Inc.® Worldwide

- United States
- Canada
- Mexico
- Argentina
- Caribbean
- Brazil
- Singapore
- Malaysia
- Thailand
- Taiwan
- China
- Philippines
- Japan
- South Korea

Environomics: The Benefits of Better Technology

Airflow Systems products are engineered to provide both environmental and economic function. Better technology provides economic advantages such as lower maintenance and energy costs, as well as higher performance. Better filtration technology also improves the work environment, while helping to protect workers and equipment from potentially hazardous contaminants. This combined economic and environmental benefit defines environomics.

Environomics at Work: Strong Arm Tactics

The Airflow Systems E-Z Arm® external support system has a patented friction-release joint that engages positively when positioned, yet offers no friction when moved away from gravity. Operators no longer wrestle with arm position or drooping hoses, collection efficiency is maximized and work flow is uninterrupted. E-Z Arm® High Flow Extractors generate air flow levels from 250 to 1500 CFM while reducing power consumption up to 30% over competitive systems operating at the same CFM level.

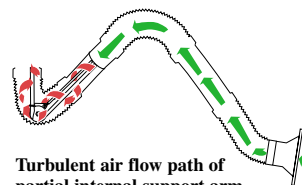


The E-Z Arm® Extractor Arm series features a friction release design that engages positively when positioned yet offers no resistance when moved.

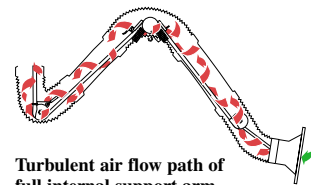
The E-Z Arm® externally supported arm design allows for unobstructed air flow through the entire arm length without internal obstructions. The Airflow design can deliver higher flow rates at lower horse power than competitive, internally supported arms.



Competitive Arm Support Designs:



Turbulent air flow path of partial internal support arm



Turbulent air flow path of full internal support arm

Source Capture Collection Systems

Power, Performance & Precision

There is increasing pressure in manufacturing, processing and lab facilities to boost productivity while reducing costs. A significant increase in productivity can usually be realized by collecting dust, smoke, fumes, and other airborne contaminants before they migrate throughout your facility. The Airflow Systems line of E-Z Arm® Extractors captures contaminants at the source

before they disrupt worker breathing zones or damage equipment or fixtures. From the capacity of the E-Z Arm® High Flow Extractor, to the performance of the E-Z Arm® II, and the precision of the E-Z Arm® 2.5 Extractor Arm, each Airflow Systems E-Z Arm® Extractor is designed to meet application-specific requirements.

E-Z Arm® High Flow Extractor

Airflow Systems E-Z Arm® High Flow Extractors provide powerful source collection in the toughest environments. A large, 6.75 inch diameter arm, available in lengths of 7, 10, and 14 feet, with flow rates up to 1500 CFM, delivers high-volume collection efficiency.



E-Z Arm® Stainless Steel Extractor Arms

Process-critical applications, such as chemical processing, have stringent operational and maintenance requirements. The Airflow Systems E-Z Arm® and E-Z Arm® II Stainless Steel Extractors reduce the risk of product contamination and eliminate the chipping and corrosion common with coated-surface arms. The E-Z Arm® eases washdown with UL rated, food-grade white Hi-Flow hose.



E-Z Arm® II High Flow Extractor Arm

Space limitations can often reduce the ability to provide appropriate contaminant collection. The Airflow Systems E-Z Arm® II High Flow Extractor Arm features a 4 inch diameter arm in 5 or 8 foot lengths to provide increased maneuverability, precise positioning, and efficient collection in tight spaces.



E-Z Arm® 2.5 Extractor Arms

Confined work areas present major challenges to operations where contaminant control is needed to protect workers and equipment. The Airflow Systems E-Z Arm® 2.5 Extractor features a 2.5 inch diameter collector arm that can be mounted in a variety of configurations, providing for precise positioning and easy maneuverability.



E-Z Arm® High Flow Extractor Arm

The E-Z Arm® High Flow Extractor Arm is ideal for operations such as welding, grinding, and machining that generate heavy concentrations of dust, smoke, and other airborne contaminants. The E-Z Arm® makes light work of contaminant collection at the source with an externally supported arm that is easy to position and provides consistent air flow. The E-Z Arm® Extractor comes in arm lengths of 7, 10, and 14 feet, with air flow rates from 600 to 1500 CFM.

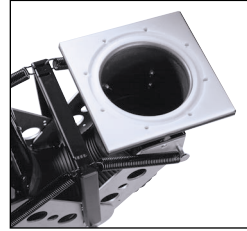
Flexible Duct

Specially designed, spiral-wire reinforced for strength and flexibility. UL rated for flammability with high resistance to weld sparks and grinding embers.



Inlet hood

Large, 13 inch diameter hood is spun aluminum with durable epoxy powder coat finish; 160° movement and a 360° flange handle allow for easier hood positioning than single-handle designs. (Inset: Optional 65w Halogen Light Kit)



HDPE Base Joint

Low-friction material doubles as a base seal without need for collars or fittings.



Counter Balance

Compact, high-strength design adds maneuverability and eliminates the need for long, potentially dangerous, external springs.

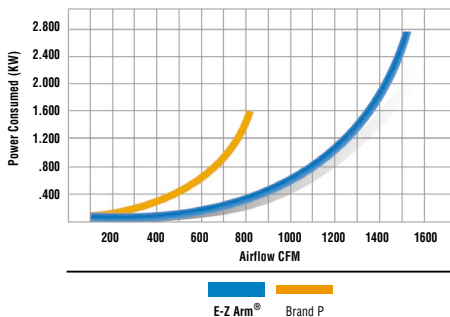


Pawl-and-Sprocket Arm Support

The patented friction release joint design engages positively when positioned yet offers no resistance when moved. Operators no longer have to work against weight, friction, or drooping hoses.

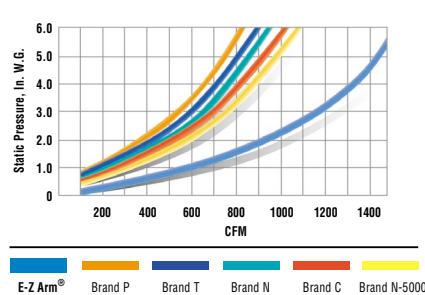


Power Consumption Comparison



The E-Z Arm® Extractor is powerful, yet efficient. When tested against a competing model (Brand P) at an 800 CFM air flow rate, the E-Z Arm® required 0.35 KW/Hr while Brand P required 1.30 KW/Hr. The E-Z Arm® produced a 73% savings in energy consumption.

Flowrate Comparison



In comparative testing, the externally supported E-Z Arm® Extractor delivers consistently higher air flow rates than competitive models.

E-Z Arm® II High Flow Extractor

The E-Z Arm® II provides superior collection performance and exceptional flexibility for optimum performance in tight spaces, such as finishing and assembly operations. A 4 inch diameter arm in 5 and 8 foot lengths, and a 360° pivoting base provides for unlimited positioning and adjustment. The E-Z Arm® II delivers air flow rates from 200 to 600 CFM.



Locking Damper (option)
Multi-stage locking damper mechanism permits precise control of air flow while eliminating damper drift.



360° Range of Movement
Eases positioning and adjustment at the workspace with 360° of unrestricted movement.



Positive Positioning Arm
Proprietary low friction joint design offers little resistance when moved. Joint friction is easily adjusted with ergonomic hand knobs.



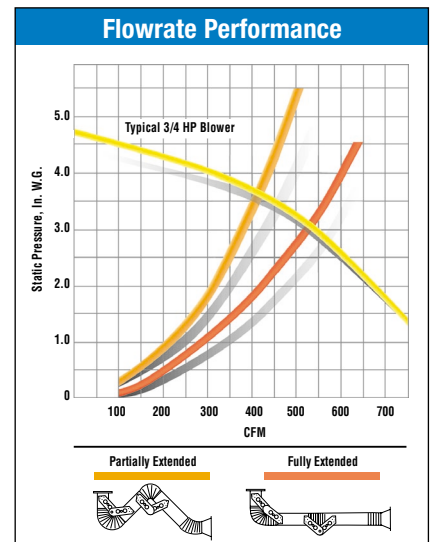
Inlet hood
Large, 10 inch diameter hood is spun aluminum with durable epoxy powder coat finish; 4-way movement and a 360° flange handle allow for easier hood positioning than single-handle designs. (Inset: Optional 35w Halogen Light Kit)



The E-Z Arm® II is also available with a laboratory-quality white epoxy powder coat.

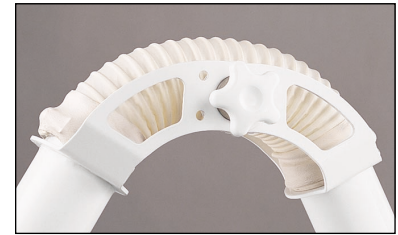


The Airflow Systems E-Z Arm® II has a four point articulated design that allows for free movement in four different planes of operation. This articulated design feature also allows for an extremely compact folding and storage capability.



E-Z Arm[®] 2.5 Extractor Arm

The E-Z Arm[®] 2.5 Extractor Arm provides precise positioning and high-volume contaminant extraction for applications such as laboratories, electronics assembly operations, and other light industrial settings where contaminants concentrate in close work areas. The E-Z Arm[®] 2.5 Extractor provides up to 250 CFM air flow and can be wall- or bench-mounted to optimize work space. A tough, white epoxy powder coat finish provides corrosion resistance and allows for easy wash down in process-critical applications.



Full 360° Range of Movement
Three joint sections provide either an 8 foot or 12 foot collection area with positive positioning in any setup without hindering worker sight lines.

Extruded Aluminum Duct
Lightweight 2.5 inch diameter duct allows for one-hand positioning; powder-coated epoxy finish resists corrosion.

Large Intake Hood
4-3/4 inch diameter flanged intake hood increases collection area and efficiency.

Positive Positioning Arm
Joint friction is easily adjusted with ergonomic hand knobs.

Multiple Mounting Options
Universal bracket allows mounting to walls, tables, ceilings or directly to an Airflow Systems dust/fume collector.



Bench-Mount Configuration



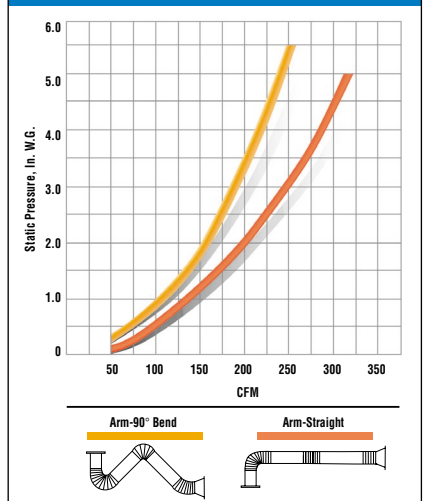
Mounted to a work bench and ducted to an Airflow Systems Mini-Vac unit, the E-Z Arm[®] 2.5 Extractor Arm keeps multiple workstations contaminant free.

Direct-Mount Configuration



Ducted directly to an Airflow Systems Mini-Vac unit, E-Z Arm[®] 2.5 Extractors maximizes collection versatility.

Flowrate Performance



Stainless Steel Extractor Arms

These highly efficient source capture units are specifically designed for process-critical applications such as food, chemical, and pharmaceutical processing. The stainless steel finish eliminates the problems of chipping and corrosion associated with coated surfaces. The E-Z Arm® diameter is 6.75 inches with arm lengths of 7 or 10 feet. And, the E-Z Arm® II has a 4 inch diameter with arm lengths of 5 and 8 feet. Units also feature a UL rated, food-grade, white Hi-Flow hose that makes wash down easy.

Food Grade, UL-Rated Hose
White Hi-Flow hose makes wash downs easy; spiral reinforced for strength and flexibility.

Stainless Steel Duct
Rugged, 26 gauge stainless steel duct is extremely durable, yet lightweight, and resistant to corrosion.

HDPE Base Joint
Low-friction material doubles as a base seal without need for collars or fittings.

Pawl-and-Sprocket Arm Support
The patented friction release joint design engages positively when positioned yet offers no resistance when moved. Operators no longer have to work against weight, friction, or drooping hoses.

Counter Balance Design
Compact, high-strength design increases maneuverability and eliminates need for long, potentially dangerous external springs.

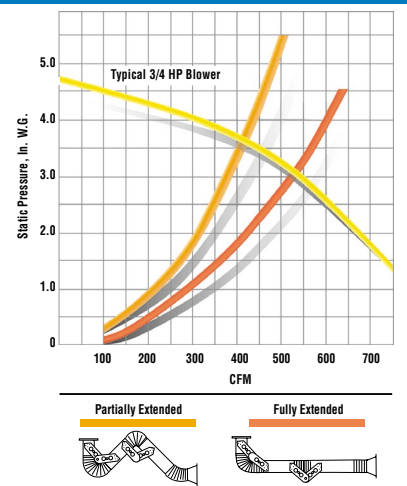
Large Inlet Hood
Large 13 inch diameter inlet hood offers 160° movement; a 360° flange handle allows easier hood positioning than single-handle designs.

E-Z Arm® II Stainless Steel Extractor



The E-Z Arm® II Stainless Steel Extractor provides the same maneuverability as the full-sized E-Z Arm® in a smaller 4 inch diameter, and shorter 5 and 8 foot lengths. The E-Z arm® II provides air flow levels up to 600 CFM.

Flowrate Performance

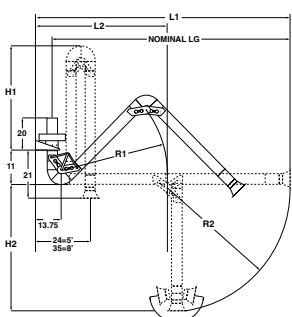


E-Z Arm® Extractor Arm Specifications

Model Name	Air Flow Level	Construction	Arm Lengths	Arm Weight	Blower Packages
 E-Z Arm® High Flow Extractor	600/1500 CFM	Epoxy coated aluminum tube connected with spiral-wire reinforced Hi-Flow hose. Heavy-duty external aluminum joints with patented, friction-release system at middle joint. Spring-balanced base joint; universal joint at powder coated aluminum flanged inlet hood.	7, 10, and 14 feet	7 feet, 36 lbs. 10 feet, 40 lbs. 14 feet, 45 lbs.	.75, 1.5, 3 5 and 7.5 HP
 E-Z Arm® II High Flow Extractor	200/600 CFM	Epoxy coated aluminum tube connected with spiral-wire reinforced Hi-Flow hose. Heavy-duty external aluminum joints. External hand knobs for easy joint friction adjustments. Spring-balanced base joint on 8 foot arm only.	5 feet, and 8 feet	5 feet, 9 lbs. 8 feet, 11 lbs.	.75, 1.5, 3 5 and 7.5 HP
 E-Z Arm® Stainless Steel*	600/1500 CFM	Stainless steel tubes connected with a food-grade spiral flex duct (UL rated). Heavy-duty external aluminum joints with friction-release system at middle joint. Spring-balanced base joint; universal joint at white plastic flanged inlet hood.	7 feet, and 10 feet	7 feet, 40 lbs. 10 feet, 45 lbs.	.75, 1.5, 3 5 and 7.5 HP
 E-Z Arm® II Stainless Steel*	200/600 CFM	Stainless steel tubes connected with a food-grade spiral flex duct (UL rated). Heavy-duty external aluminum joints. External hand knobs for easy joint friction adjustments. Spring-balanced base joint on 8 foot arm only.	5 feet, and 8 feet	5 feet, 11 lbs. 8 feet, 13.5 lbs.	.75, 1.5, 3 5 and 7.5 HP
 E-Z Arm® 2.5 Extractor	75/250 CFM	Epoxy coated aluminum extruded seamless tubing connected with spiral flex duct. Heavy-duty aluminum joints with easy external friction adjustment, double-friction base joint. Standard flanged hood. Finished in white epoxy powder coat.	4 feet, and 6 feet	4 feet, 5 lbs. 6 feet, 6 lbs.	.75 and 1.5 HP

*Stainless steel tube with aluminum supports

Dimensions Reference



E-Z Arm® Extractor Dimensions

Model	E-Z Arm® High Flow Extractor			E-Z Arm® II High Flow Extractor		E-Z Arm® Stainless Steel		E-Z Arm® II Stainless Steel		E-Z Arm® 2.5 Extractor	
	7 ft	10 ft	14 ft	5 ft	8 ft	7 ft	10 ft	5 ft	8 ft	4 ft	6 ft
L1	95.00	129.50	169.75	66.75	105.00	95.00	129.50	66.75	105.00	48.00	72.00
L2	49.50	66.75	86.25	29.25	53.00	49.50	66.75	29.25	53.00	21.12	31.68
H1	23.00	41.00	61.00	13.00	38.00	23.00	41.00	13.00	38.00	N/A	N/A
H2	49.25	67.00	87.75	36.00	54.00	49.25	67.00	36.00	54.00	N/A	N/A
R1	32.50	49.75	69.25	23.00	41.00	32.50	49.75	23.00	41.00	N/A	N/A
R2	46.25	64.00	83.75	34.00	52.00	46.25	64.00	34.00	52.00	N/A	N/A

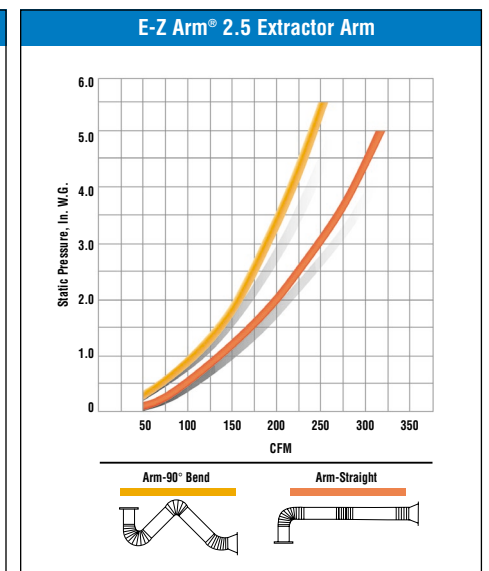
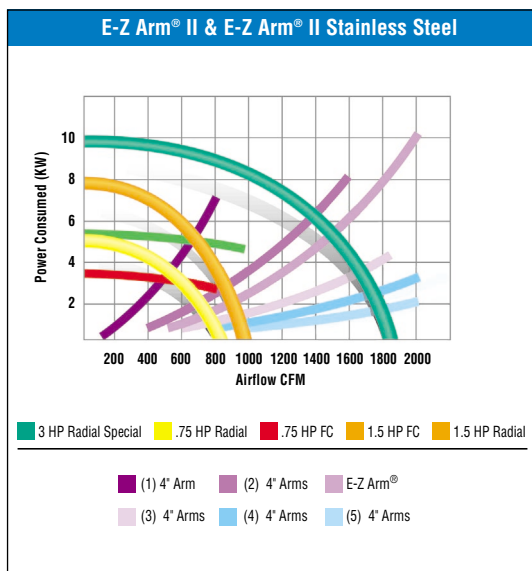
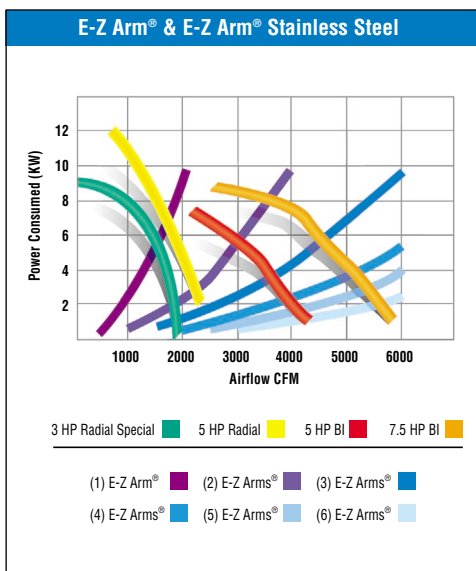
E-Z Arm® Options & Performance Data

Optional Equipment	E-Z Arm® High Flow Extractor	E-Z Arm® II High Flow Extractor	E-Z Arm® Stainless Steel	E-Z Arm® II Stainless Steel	E-Z Arm® 2.5 Extractor Arm
Halogen Light Kit Improves worker visibility and productivity	■ (65 watt)	■ (35 watt)			■ (20 watt)
Hood-mounted Controls Individually controls light and/or blower on each unit	■	■	■	■	
Silencer Reduces noise for quieter operation	■	■			
Wall Brackets* Add installation versatility	■	■	■	■	Standard
Boom Extensions** Complete kit, including one transition to 8 inch diameter	5, 10, and 16 feet	5 and 8 feet	5, 10 and 16 feet	5 and 8 feet	
Adjustable-Height Floor Stand Maximum height of 120 inches	■	■	■	■	
Filtration Units HEPA, cartridge, and odor control modules, based on application	■	■	■	■	■
Multiple Blower Packages Configured to meet 5, and 7.5 HP specific applications	.75, 1.5, 3, 5 and 7.5 HP	.75, 1.5, 3, 5 and 7.5 HP	.75, 1.5, 3, 5 and 7.5 HP	.75, 1.5, 3, 5 and 7.5 HP	.75 and 1.5

* Available in stainless steel for Stainless Steel E-Z Arm® and E-Z Arm® II Extractor Arms

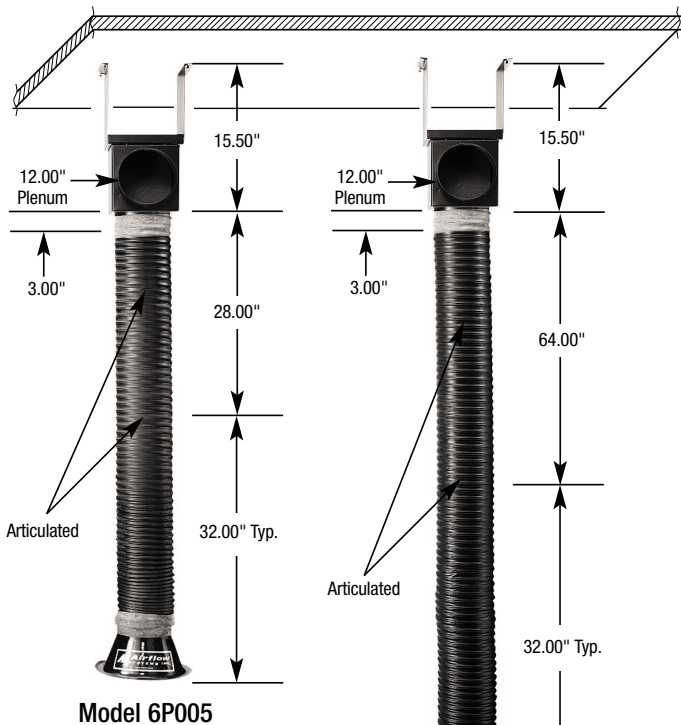
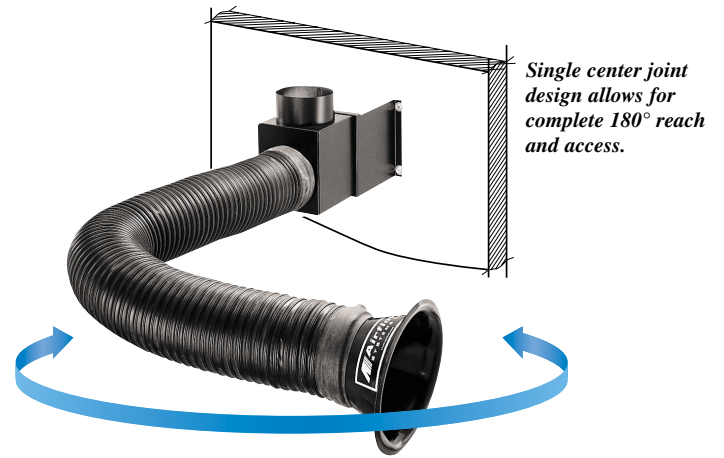
** Stainless Steel tube with aluminum supports

E-Z Arm® Performance Data

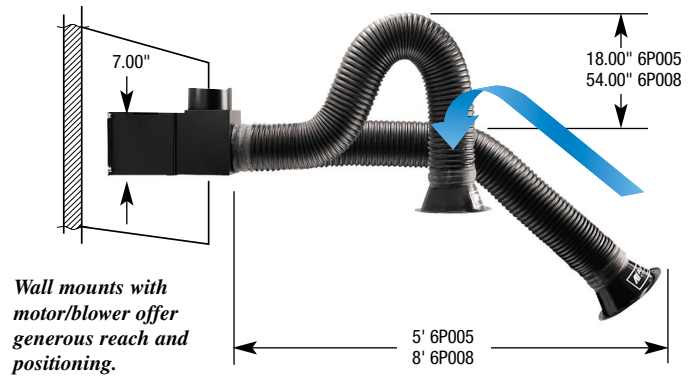


Positioner Exhaust Arms

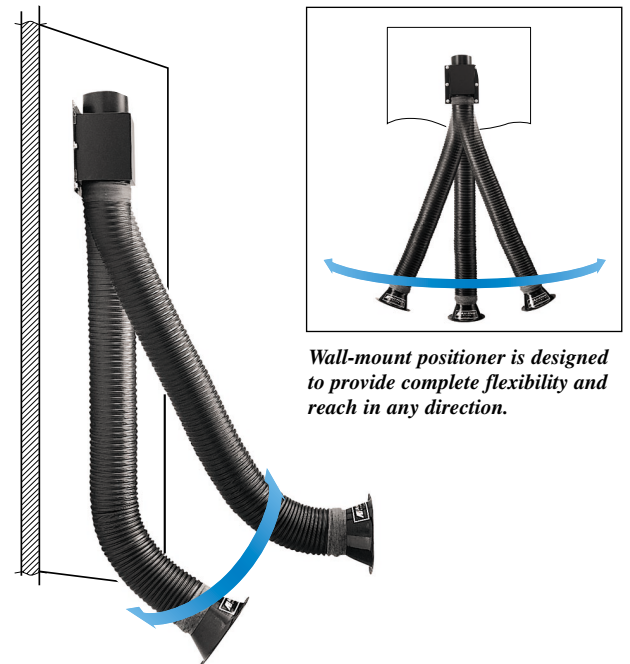
Airflow Systems Positioner exhaust arms provide the perfect economic exhaust solution for workbench applications – ideal for schools, training areas, and small parts welding. A single center joint provides complete, 180° positioning. A 10.5 inch diameter inlet hood optimizes collection efficiency. Positioners are designed to connect to existing ductwork or connect directly to Airflow Systems collection and filtration units.



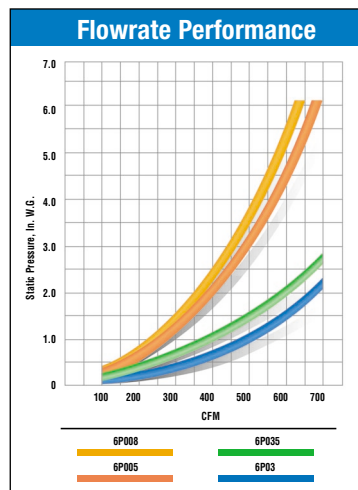
Models 6P005 and 6P008 have one center joint allowing 180° flexibility for the last 32".



Model 6P008



Model 6P035 shown in a welding school.

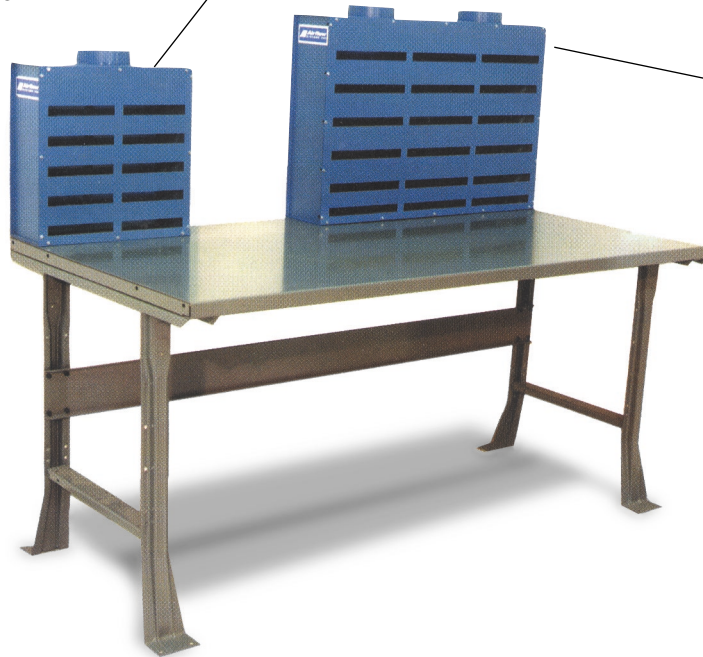


Backdraft Hoods

The Airflow Systems backdraft hoods are designed to provide contaminant collection for permanent workstations other systems cannot reach. Backdraft hoods duct to remote collection systems (available from Airflow Systems) pulling contaminants from workers' breathing zones. Air flow levels are available from 525 to 1050 CFM.

Part No. 1AC8-3001

Constructed of 16 ga. zinc coated steel with textured blue urethane finish. Requires 1.2 inches W.G. static pressure at the air connection for recommended 525 CFM. (18"W x 18"H, with one 6" dia. connection on the top).



Part No. 1AC8-5001

Constructed of 16 ga. zinc coated steel with textured blue urethane finish. Requires 1.2 inches W.G. static pressure at the air connection for recommended 1050 CFM. (36"W x 24"H, with two 6" dia. connections on top).



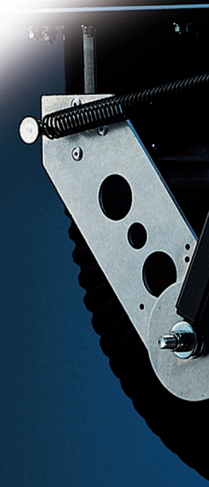
14 foot E-Z Arm[®] Extractor Arm



10 foot E-Z Arm[®] Extractor Arm



Dual, 10 foot E-Z Arm[®] Extractor Arms



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