



Welding Safety & Health

Fume Extraction

FILTAIR® FUME EXTRACTION

The complete line of FILTAIR® fume extractors are designed specifically for welding – drawing weld fumes away from the operator’s breathing zone and keeping facilities clean. With the various fume extraction equipment that Miller® offers, the below chart can be used as a tool to find the right FILTAIR® fume extraction solution that best fits your environment and fume control needs.



ZoneFlow™ Technology Available!

FILTAIR® 130	FILTAIR® MWX	FILTAIR® Capture 5	FILTAIR® SWX	FILTAIR® 4000, 6000, 8000, 12000
Type				
Portable	Mobile	Mobile	Stationary wall or column mounted	Part of an engineered centralized system
Ideal For				
Light fabrication and manufacturing, contractors and MRO	Fabrication, manufacturing, training facilities	Fabrication, heavy equipment manufacturing and MRO	Fabrication, manufacturing, training facilities	Fabrication, manufacturing – handheld and automation, training facilities
Benefits				
<ul style="list-style-type: none"> Lightweight and portable to easily move next to work station Can extract up to 34 feet away with hose extensions Self contained filter can be manually cleaned to extend its life up to 8x that of conventional filters 	<ul style="list-style-type: none"> Disposable or cleanable filters for multiple applications System that can easily move around in weld area External brackets and adjustments allow air to pass through with less resistance providing stronger airflow 	<ul style="list-style-type: none"> Features ZoneFlow™ technology, which increases the fume capture zone up to 5 feet for minimum arm interaction and increased arc-on time Easily movable – no extra cost when reconfiguring manufacturing areas Can capture fume on larger weldments 	<ul style="list-style-type: none"> Powerful systems that easily move to the weld or are mounted next to the weld area, not taking up floor space Optional ZoneFlow™ extraction arms which increase the fume capture zone up to 5 feet for minimum arm interaction and increased arc-on time Disposable or cleanable filter for multiple applications Can capture fume on larger weldments 	<ul style="list-style-type: none"> Can be mounted indoor or outdoor Optional ZoneFlow™ extraction arms which increase the fume capture zone up to 5 feet for minimum arm interaction and increased arc-on time Cost effective for high quantities of arcs Significantly smaller and quieter than competitive offerings and features better performance Can clamp together duct work reducing installation costs Able to have a wall-mounted arm or low-profile hood
Limitations				
<ul style="list-style-type: none"> Not designed for high hour welding applications with small size Fume nozzle must be within 6 inches of welding arc for effective fume capture 	<ul style="list-style-type: none"> Can extract up to 18 inches from the weld which may mean increased arm interaction on welds longer than 18 inches Takes up floor space near the welding area 	<ul style="list-style-type: none"> External air movement can reduce capture area Takes up floor space near the welding area 	<ul style="list-style-type: none"> SWX standard extraction arms can only extract up to 18 inches from the weld which may mean increased arm interaction on welds longer than 18 inches External air movement can reduce capture area for ZoneFlow™ arms 	<ul style="list-style-type: none"> Moderate to high interaction with the arm is required when extracting from large parts External air movement can reduce capture area for ZoneFlow™ arms Duct work can interfere with overhead cranes Duct work installation can be costly

FILTAIR® 130	FILTAIR® MWX	FILTAIR® Capture 5	FILTAIR® SWX	FILTAIR® 4000, 6000, 8000, 12000
Size				
<ul style="list-style-type: none"> 23" x 12" x 12" 46 lbs 	<ul style="list-style-type: none"> MWX-D 34.75" x 31.75" x 48", 238 lbs MWX-S 34.75" x 31.75" x 48", 300 lbs 	<ul style="list-style-type: none"> 43" x 46" x 48" 660 lbs 	<ul style="list-style-type: none"> SWX-D 29" x 27.25" x 33" 130 lbs SWX-S 30" x 27.25" x 33" 195 lbs 	<ul style="list-style-type: none"> Varies
Number of Welding Arcs				
1	1	1	Up to 2 per unit	Up to 18 per unit
Capture				
<ul style="list-style-type: none"> Bernard FILTAIR® Gun, Slotted Nozzle Flex Funnel Nozzle Slotted Nozzle Collection Hose - up to 34 feet away 	<ul style="list-style-type: none"> 7, 10, or 12 foot extraction arms 	<ul style="list-style-type: none"> 10 and 12 foot ZoneFlow™ extraction arms 	<ul style="list-style-type: none"> 4.5 foot (Telescopic), 7, 10 or 12 foot extraction arms 10 and 12 foot ZoneFlow™ extraction arms Automation Cell Low-Profile Hood 	
Distance to Arc				
<ul style="list-style-type: none"> Less than 6 inches with accys or Bernard FILTAIR® Gun 	<ul style="list-style-type: none"> Up to 18 inches with extraction arm 	<ul style="list-style-type: none"> Up to 5 feet away with ZoneFlow™ extraction arm 	<ul style="list-style-type: none"> 18 inches with standard extraction arm Up to 5 feet away with ZoneFlow™ extraction arm 	<ul style="list-style-type: none"> 18 inches with standard extraction arm Up to 5 feet away with ZoneFlow™ extraction arm
Number of Arc Hours				
<ul style="list-style-type: none"> Low / Intermittent 	<ul style="list-style-type: none"> Medium (Disposable Filter Model) High (Self-Cleaning Filter Model) 	<ul style="list-style-type: none"> High 	<ul style="list-style-type: none"> Medium (Disposable Filter Model) High (Self-Cleaning Filter Model) 	<ul style="list-style-type: none"> High
Filter Type*				
<ul style="list-style-type: none"> Manual Cleaning 	<ul style="list-style-type: none"> MWX-D: Disposable MWX-S: Self-Cleaning 	<ul style="list-style-type: none"> Self-Cleaning 	<ul style="list-style-type: none"> SWX-D: Disposable SWX-S: Self-Cleaning ZoneFlow™: Self-Cleaning 	<ul style="list-style-type: none"> Self-Cleaning
Filter Efficiency				
MERV 15	MERV 15	MERV 15	MERV 15	MERV 15
Filter Media				
31 sq. ft.	490 sq. ft.	452 sq. ft.	490 sq. ft.	147 sq. ft. per filter**
Input Power				
115V / 1ph. / 60Hz / 11A	115V / 1ph. / 60Hz / 11.9A	460V / 3ph. / 60Hz / 13.7A	115V / 1ph. / 60Hz / 11.9A	230, 460, 575V / 3ph. / 60Hz
AirFlow				
Accu-Rated™: 132 cfm	Accu-Rated™: 875 cfm Nominal: 1,200 cfm	Accu-Rated™: 900 cfm	Accu-Rated™: 875 cfm Nominal: 1,200 cfm	Accu-Rated™: 2,000 - 10,500 cfm
Sound Level at 5 feet				
68.5 dBA	70 dBA	77 dBA	75 dBA ZoneFlow™: 80 dBA	75 dBA ZoneFlow™: 80 dBA

*Upgrade to self-cleaning models with high arc-on time, extracting from heavy fume processes, and when welding aluminum or galvanized materials.

**FILTAIR® 4000 has 4 filters, FILTAIR® 6000 has 6 filters, FILTAIR® 8000 has 8 filters and FILTAIR® 12000 has 12 filters.

Terms and Definitions

Accu-Rated™: The true, accurate airflow at the inlet of the collection hood.

CFM (Cubic Feet Per Minute): Measurement of velocity at which air flows into or out of a space.

MERV (Minimum Efficiency Reporting Value): A reliable standard to rate and compare filter media efficiency.

ZoneFlow™: Advanced Miller® technology that creates a negative pressure zone, allowing the weld particulate capture distance to be extended up to five feet deep and three feet wide.