

FILTAIR® Purifier

Fume Extraction System

Welding Safety and Health 

Quick Specs

Industrial Applications

Manufacturing and fabrication
Schools and training centers

Processes

Stick (SMAW)
Flux-cored (FCAW)
MIG (GMAW)
TIG (GTAW)

Nominal Airflow 7,000 cfm

Sound Level 75–80 dBA running at 5 ft. (1.5 m),
intermittent pulse cleaning is
approximately 93 dBA at 5 ft. (1.5 m)

Compressed Air Requirements

9.75 scfm at 60 psig

Filter Total Filters: 8 Filter Media: 2,032 sq. ft.

Fan Horsepower 15 hp

Input Power

230, 460 or 575 V, 3-phase, 60 Hz

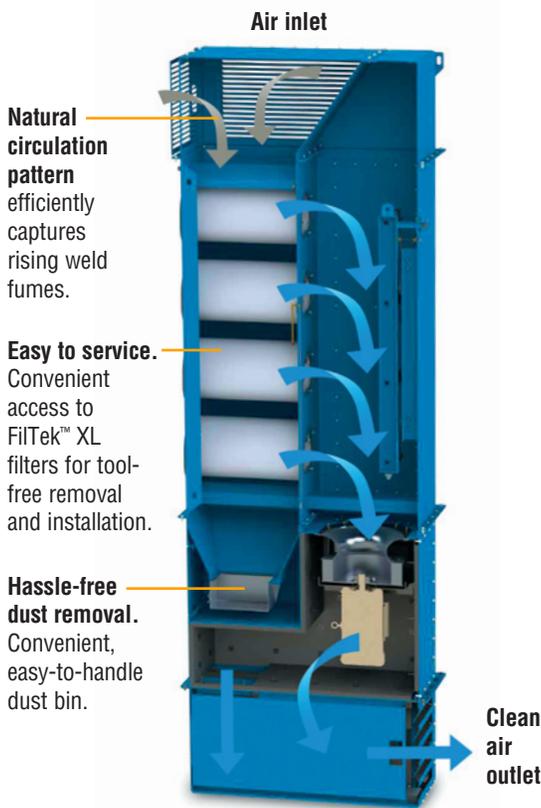
Dimensions (H x W x D)

170 x 48 x 62 in.
(4,318 x 1,220 x 1,575 mm)

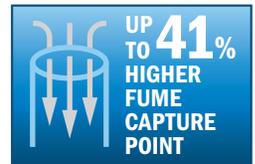
Weight 3,272 lb. (1,484 kg)

Ideal for facilities looking to improve air quality.

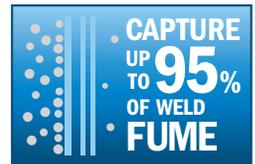
The FILTAIR Purifier is a stand-alone system that efficiently captures lingering weld fumes as they ascend, while circulating filtered air near floor level to improve overall air quality.



Faster air changeover



Efficiently captures rising weld fumes



FilTek™ XL Filters (MERV 15)
Ultra-efficient filter media design for lower operating costs and a cleaner work space

Have a certified industrial hygienist test the air in your facility to determine equipment requirements and ensure adequate protection from contaminants.



Fume extractor is warranted for two years, parts and labor.



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The FILTAIR® Advantage

Before: Lingering weld fume haze



After: Improved air quality



Integrated control panel with simple and intuitive display.



Best-in-class safety features

Temperature sensor and water sprinkler included for reduced thermal hazard risk. See owner's manual for additional safety features and precautions.

Up to 85 percent more cfm within a similar footprint — creating faster air changeover and requiring fewer units to clean the same volume of air.

Efficient design. Captures rising weld fume at a height where it lingers, up to 41 percent higher than other systems.

Advanced filter technology. FilTek® XL filters enable more efficient fume capture and extend filter life with a self-cleaning pulsed air system.

Easy filter access and maintenance

Self-cleaning system extends filter life and includes an easy-to-reach particle disposal bin. Filter change is simple with external access and no tools required.



Specifications (Subject to change without notice.)

Filter Media	Filters	Nominal Airflow	Sound Level	Input Power	Dimensions	Net Weight
2,032 sq. ft. (189 sq. m)	8	7,000 cfm (3,304 L/sec.)	75–80 dBA running at 5 ft. (1.5 m) Intermittent pulse cleaning is approximately 93 dBA at 5 ft. (1.5 m)	230, 460 or 575 V, 3-phase, 60 Hz	H: 170 in. (4,318 mm) W: 48 in. (1,220 mm) D: 62 in. (1,575 mm)	3,272 lb. (1,484 kg)

FilTek® XL Filters

Cleaner air with FilTek XL filters

The FilTek XL filter's higher MERV rating means unrivaled filtering performance.

Filters are rated on a MERV scale, which measures filter efficiency based on particle count. MERV ratings range from 1 to 16, with 16 being the best at filtering small particles—such as those found in weld fumes.

Filters in common air filtration systems often have MERV ratings from 7 to 11. FILTAIR® Purifier FilTek XL filters are rated at class-leading MERV 15 to capture up to 95 percent of weld fume particulate.

MERV Comparison

Applicable Weld Fume MERV Rating Categories ¹	Particle Size Range Efficiency % ²		
	0.3 to 1 µm	1 to 3 µm	3 to 10 µm
10	Not rated	50–65%	85%
11	Not rated	65–80%	85%
12	Not rated	80–90%	85%
13	<75%	90%	90%
14	75–85%	90%	90%
15	Miller® FilTek XL	85–95%	90%
16		≥95%	≥95%
HEPA ³	≥99.97%	≥99.97%	≥99.97%
Weld Fume Composition ⁴	75–95%	≤15%	≤10%

¹American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 52.2

²National Air Filtration Association (NAFA) Guide

³HEPA filters are depth loading and have high restrictions to air flow, reducing system performance versus FilTek XL filters.

⁴Jenkins, Pierce, Edgar, Particle Size Distribution of GMAW and FCAW

Filter media performance summary

FilTek XL filters have high efficiencies and low pressure drops to capture better, last longer, and lower operating costs.

Filter Media Type	Weld Fume Capture Efficiency	Pressure Drop
Cellulose	Very low	Low
Cellulose blend	Low	Moderate
Spunbond polyester	Moderate/high	High
Meltblown composite	High	High
Miller FilTek XL	High	Low

Not just filters – FilTek XL filters

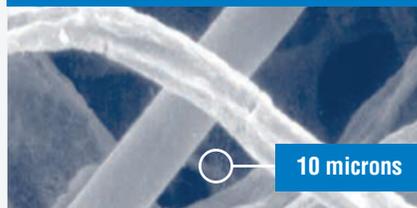
Fine Fiber Filter Media (600x)



10 microns

FILTAIR surface loading technology enables more efficient fume capture and is available exclusively in Miller FilTek XL filters.

Traditional Filter Media (600x)



10 microns

Traditional filter media has spaces of up to 60 µm between fibers, allowing dust to become deeply embedded.

Ordering Information

Fume Extractor and Options	Stock No.	Description	Qty.	Price
FILT AIR® Purifier	301745	230 V/3-phase/60 Hz, 7,000 cfm, includes 8 MERV 15 filters		
	301746	460 V/3-phase/60 Hz, 7,000 cfm, includes 8 MERV 15 filters		
	301769	575 V/3-phase/60 Hz, 7,000 cfm, includes 8 MERV 15 filters		
Accessories				
Replacement FilTek® XL Filter	296823			

Date:

Total Quoted Price:

Distributed by:

