

FILTAIR® 215

Welding Safety and Health 

Quick Specs

Industrial Applications
Manufacturing
Fabrication

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

Filter Media
75 sq. ft. (7 sq. m)

Nominal Airflow (variable)
215 cfm (101 L/sec.)

Sound Level at 5 ft. (1.5 m)
67–70 dBA (low), 78–80 dBA (high)

Motor Specifications 5.5 hp, 4.0 kW

Input Power 460 V, 3-phase, 60 Hz at 9.2 A

Dimensions H: 30 in. (762 mm)
W: 22 in. (559 mm)
D: 46 in. (1,168 mm)

Net Weight 390 lb. (177 kg)

Industrial high-vacuum fume extraction system designed specifically for welding.

The FILTAIR 215 is a versatile, high-vacuum system that maximizes flow capacity for **multiple operators** using portable extraction attachments such as nozzles and fume guns — for efficient **multi-use weld fume capture** at the source.



Better Performance



Increased Versatility



Simplified Maintenance

New Y-adapter allows for up to four operators



Note: Only one 8-foot collection hose is included with unit. See Accessories on page 4 for attachment options.

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.



Meets both UL and CSA standards.



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The FILTAIR® Advantage



Better Performance

- **215 cfm airflow rating** provides effective fume capture with multiple attachments.
- **MERV 16 rated filter** captures 95 percent or more of weld fume.
- **Over 130-foot reach** between attachments. See diagram in Typical Installations on page 3.
- **Low cost per operator** with one fume extractor supporting up to four attachments.



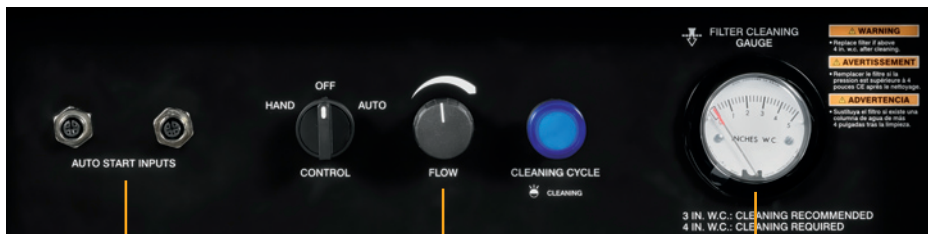
Increased Versatility

- **True multi-use performance** allows up to four accessories to run simultaneously without sacrificing weld fume capture.
- **Variable flow control.** Adjust to the proper airflow for any application.
- **Variety of accessories.** Compatible with fume extraction guns, funnel nozzles and slotted nozzles.
- **Auto start-stop (optional).** Fume extractor remains off until the sensor detects torch activity, maximizing energy savings and extending filter life.



Simplified Maintenance

- **Self-cleaning filter mechanism.** A pulse cleaning cycle is automatically activated when needed, extending filter life by up to eight times.
- **Particulate disposal bin** is easy to access with handles that release drawer located on back of machine.
- **Bag-out filter change** provides a clean and convenient filter replacement process.
- **Convenient flat top design and storage handles** keep work environment organized. Capable of holding dual wire feeder, with storage handles for fume guns and hoses.
- **Large rear wheels** allows for easy movement over weld cables.



Auto start-stop

Variable flow control

Filter cleaning gauge



Bag-out filter change

Metal cabinet design

Large rear wheels

Air inlet port

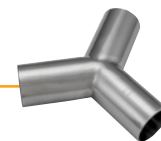
Note: Compressed air supply of 80–100 psi (3.8–4.8 kPa) is required to activate self-cleaning mechanism. Air supply must be clean, dry and oil free.



Storage handles



Holds wire feeder



Optional Y-adapter allows connection of up to four fume guns or other attachments.

Specifications (Subject to change without notice.)

Filter Media	Nominal Airflow (variable)	Sound Level at 5 ft. (1.5 m)	Motor	Input Power	Dimensions	Net Weight
75 sq. ft. (7 sq. m)	215 cfm (101 L/sec.)	67–70 dBA (low) 78–80 dBA (high)	5.5 hp, 4.0 kW	460 V, 3-phase, 60 Hz at 9.2 A	H: 30 in. (762 mm) W: 22 in. (559 mm) D: 46 in. (1,168 mm)	390 lb. (177 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 215 FilTek XL filters are rated at class-leading MERV 16 to capture 95 percent or more 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%	90%
16	Miller® FilTek XL	≥95%	≥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

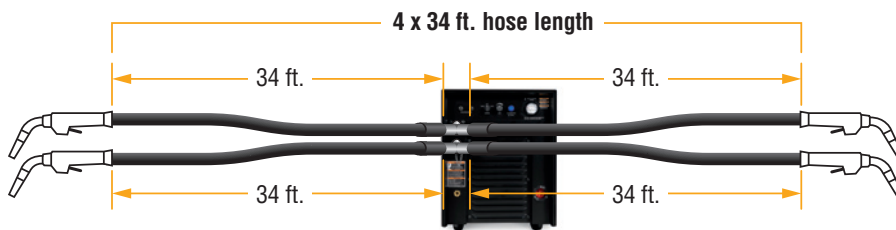
²National Air Filtration Association (NAFA) Guide

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

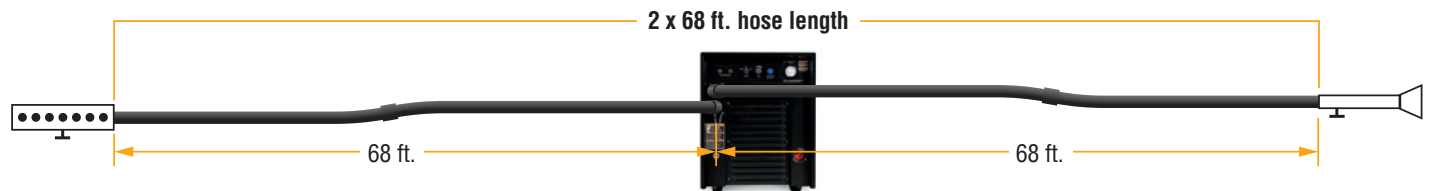
⁴Jenkins, Pierce, Edgar, Particle Size Distribution of GMAW and FCAW

Applications and Typical Installations

Installation 1 (136 ft. maximum hose length per machine)


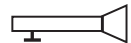



Installation 2 (136 ft. maximum hose length per machine)



Applications

- Fume Guns
- Fume Nozzles
- Automation Cells
- Cobots

Attachment	Average CFM Required
Fume Gun 	35
Funnel Nozzle 	100
Slotted Nozzle 	100

Bernard® Clean Air™ Fume Extraction MIG Guns

Straight handle
(shown with
optional short
nozzle shroud)



Curved handle



Maintaining a clean working environment is important and Bernard understands the need for a reliable fume extraction solution. Extract fumes at the weld bead using either of our two models and a FILTAIR fume extractor.

To order fume extraction guns, visit Tregaskiss.com. When ordering gun, be sure to include the Bernard gun adapter.

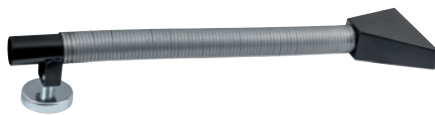
Genuine Miller® Accessories



FiltTek® XL Replacement Filter 301675
MERV 16 replacement filter. Includes eight magnetic pegs and plastic bag to aid in removal of used filter.



Collection Hoses
300896 17 ft. (5.2 m) length
300897 34 ft. (10.4 m) length



Flexible Funnel Magnetic Nozzle 300668
Flexible funnel nozzle with magnetic base.



Slotted Magnetic Nozzle 300895
12-inch (305 mm) wide nozzle with magnetic base.



Y-Adapter 301743
Allows connection of up to four fume guns or other attachments.



Machine-To-Y-Adapter 295743
Required to connect Y-adapter to machine.



Hose-To-Hose Connector 295907
Required to connect hoses together.



Auto Start-Stop 292774
Fume extractor remains off until the sensor detects torch activity.

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
FILTAIR® 215	301674	Industrial high-vacuum system with 8 ft. (2.4 m) collection hose		
Fume Guns				
Bernard® Clean Air™ Fume Extraction MIG Guns		300-, 400-, 500- and 600-amp MIG guns available. To order, visit Tregaskiss.com		
FiltTek® XL Replacement Filter	301675	MERV 16		
Accessories				
Collection Hoses	300896 300897	17 ft. (5.2 m) length 34 ft. (10.4 m) length		
Flexible Funnel Magnetic Nozzle	300668	With magnetic base		
Slotted Magnetic Nozzle	300895	12 in. (305 mm) width. With magnetic base		
Y-Adapter	301743	Used to connect two hoses to single machine hose inlets		
Machine-To-Y-Adapter	295743	Required to connect Y-adapter to machine		
Hose-To-Hose Connector	295907	Required to connect hoses together		
Auto Start-Stop	292774	Fume extractor remains off until the sensor detects torch activity		

Date:

Total Quoted Price:

Please email FILTAIR@millerwelds.com
for information on fume extraction solutions.

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