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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 208–230 V, 1-phase, 60 Hz at 26–30 A
460 V, 3-phase, 60 Hz at 9.2 A
575 V, 3-phase, 60 Hz at 7.0 A

Dimensions (H x W x D)
30 x 22 x 46 in. (762 x 559 x 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

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.

TRUE BLUE® 2YR. WARRANTY

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

Intertek *Meets both UL and CSA standards.*

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ISO 9001 Quality

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.

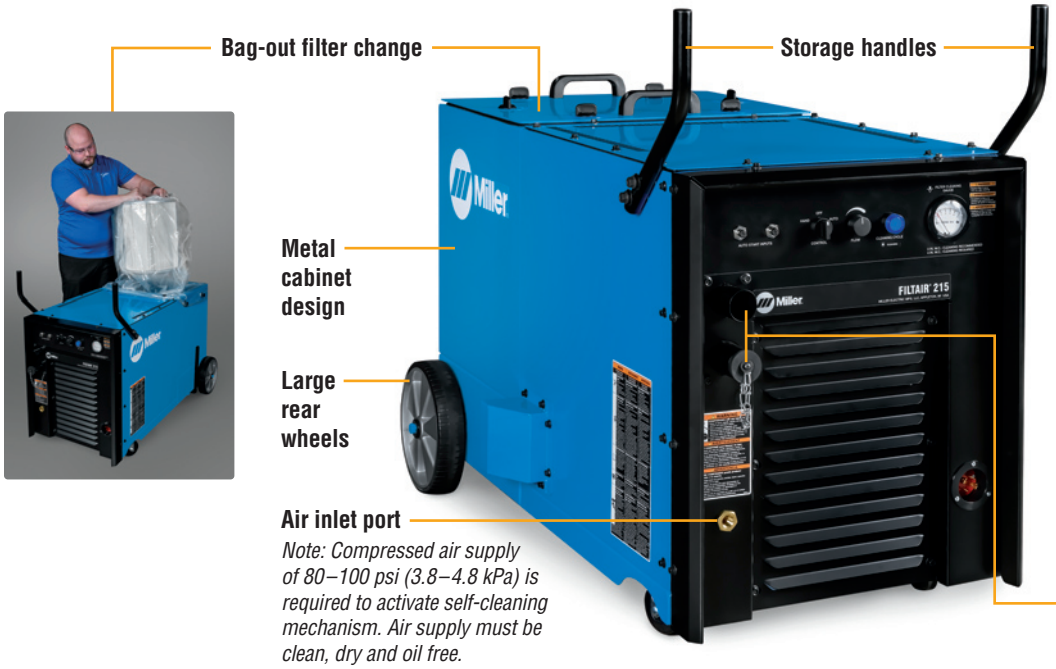
Simplified Maintenance

- **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



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.

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	208–230 V, 1-phase, 60 Hz at 26–30 A 460 V, 3-phase, 60 Hz at 9.2 A 575 V, 3-phase, 60 Hz at 7.0 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%

[1] *American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) 52.2*
[2] *National Air Filtration Association (NAFA) Guide*
[3] ***HEPA filters are depth loading and have high restrictions to air flow, reducing system performance versus FilTek XL filters.***
[4] *Jenkins, Pierce, Edgar, Particle Size Distribution of GMAW and FCAW*

Applications and Typical Installations

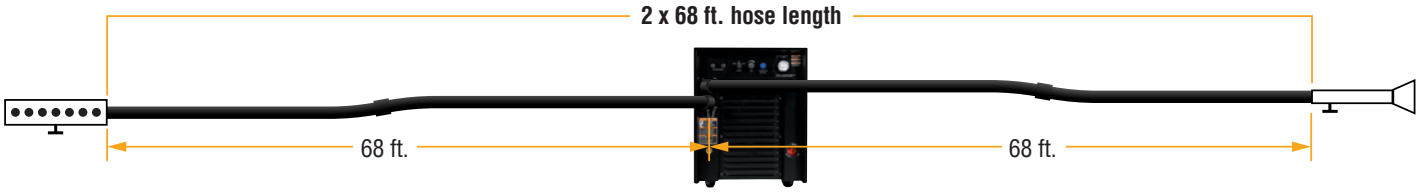
Installation 1 (136 ft. maximum hose length per machine)

Applications

- Fume Guns
- Fume Nozzles
- Automation Cells
- Cobots

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

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



Bernard® Clean Air™ Fume Extraction MIG Guns

Guns shown with medium extraction shroud (left) and long extraction shroud (right).

Bernard's Clean Air E™ fume extraction MIG Gun helps create a cleaner and more productive welding environment by capturing up to 95 percent of fumes at the source, improving weld visibility, and reducing welder fatigue. Designed for durability in heavy industrial use, it minimizes rework, lowers compliance risks, and supports efforts to attract and retain top talent.

Customize your Clean Air E MIG gun by configuring at BernardTregaskiss.com

Genuine Miller® Accessories

FilTek® 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	**301842** **301674** **301879**	208/230 V. Industrial high-vacuum system with 8 ft. (2.4 m) collection hose 460 V. Industrial high-vacuum system with 8 ft. (2.4 m) collection hose 575 V. 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 BernardTregaskiss.com		
FilTek® 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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