

FILTAIR[®] 400

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Fume
Extractor 

Quick Specs

Industrial Applications

Manufacturing and
Fabrication

Processes

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

Nominal Airflow 400 CFM (189 L/sec.)

Sound Level 74 dBA at 5 ft. (1.5 m)

Motor Specifications 8.85 HP

Input Power 460 V/3-Phase/60 Hz

Dimensions H: 54 in. (1372 mm)

W: 26 in. (660 mm)

D: 48 in. (1219 mm)

Weight 551 lb. (250 kg)

The Power of Blue.[®]

New!

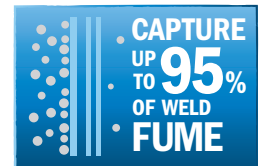
Industrial high-vacuum system designed specifically for welding.

The FILTAIR 400 high-vacuum system with flexible, longer hoses maximizes the portability of extraction attachments such as nozzles and fume guns.



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

See accessories for attachment options.



Standard high-efficiency filter designed to capture weld fume



Extract at the source!



Portable for extraction flexibility

TRUE BLUE[®]
WARRANTY

Fume extractor is warranted for 2 years, parts and labor.



Miller Electric Mfg. Co.

An Illinois Tool Works Company
1635 West Spencer Street
Appleton, WI 54914 USA

Equipment Sales US and Canada

Phone: 866-931-9730
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International FAX: 920-735-4125

Website

MillerWelds.com



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 1–16, with 16 being the best at filtering small particles — such as those found in weld fumes. The vast majority of weld fumes are less than one micron in diameter, or roughly 1/100th the width of a human hair.

Filters in common air filtration systems often have MERV ratings between 7–11. FilTek XL filters are rated at class-leading MERV 15–16 to capture up to 95 percent of weld fume particulates.

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

Features

Extraction Flexibility

The FILTAIR 400 can utilize more than 60 feet of collection hose to extend accessories for fume extraction. Rigid ducting can be used to extend overall reach.



Automated Filter Cleaning

The intelligent filter-control system generates automatic filter cleaning and lowers the operating cost of the system.

Specifications (Subject to change without notice.)

Filter Media	Nominal Airflow	Sound Level	Motor	Input Power	Dimensions	Weight
108 ft. ² (10 m ²)	400 CFM (189 L/sec.)	74 dBA at 5 ft. (1.5 m)	8.85 HP	460 V/3-Phase/60 Hz	H: 54 in. (1372 mm) W: 26 in. (660 mm) D: 48 in. (1219 mm)	551 lb. (250 kg)

Bernard® FILTAIR® Fume Gun



NEW! Bernard FILTAIR Extraction Gun Series

Ideally suited for almost any solid-wire welding application. Adjustable vacuum chamber maximizes suction without affecting shielding gas, and provides for efficient smoke and fume collection. Available in 300- and 400-amp models. Features:

- Smaller handle
- Lighter weight
- Flexible back end
- Smaller front end

To order, contact Bernard at 1-800-946-2281 or 1-708-946-2281. When ordering gun, be sure to order Bernard gun adaptor.

Typical Installations

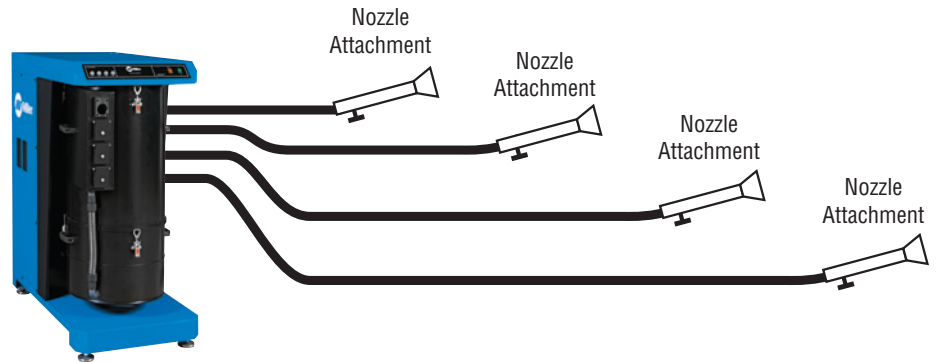
Minimum 200 CFM Required

- Funnel Nozzle: 100 CFM
- Slotted Nozzle: 100 CFM
- Bernard® FILTAIR® fume gun: 35 CFM

Note: Ducted systems require system balancing. Please call toll-free 855-FILTAIR (855-345-8247) for information on ducted system requirements to fit your needs.

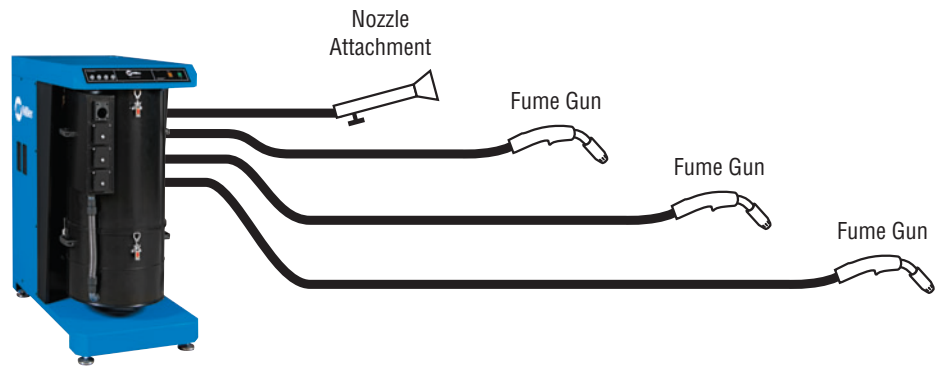
2–4 Nozzles Attached

- Up to 200 feet of total hose
- 70 feet maximum per attachment



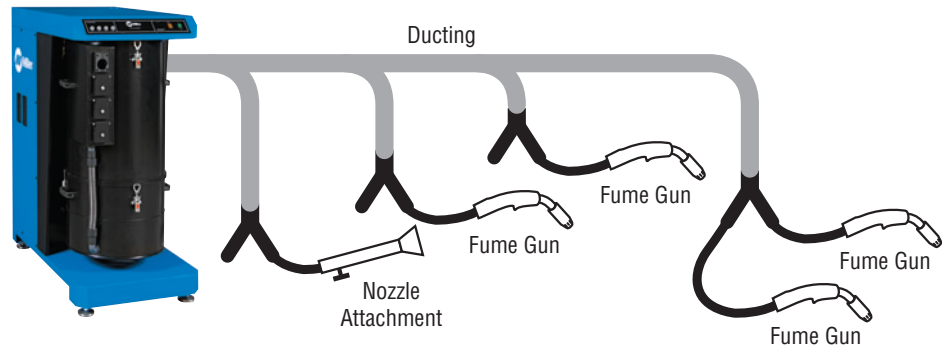
3 Bernard FILTAIR Fume Guns

- Up to 200 feet of total hose
- 70 feet maximum per attachment



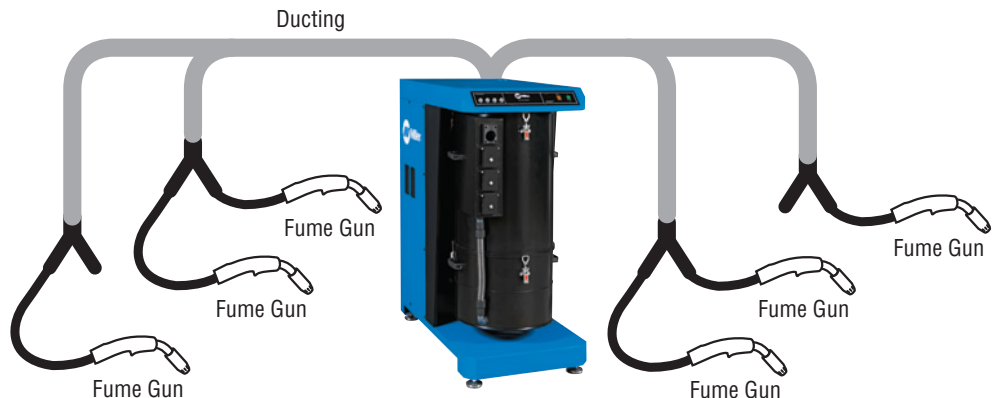
3–5 Bernard FILTAIR Fume Guns

- Up to 60 feet of horizontal duct
- Up to 135 feet of total hose
- 35 feet maximum from duct



6 Bernard FILTAIR Fume Guns

- Up to 60 feet of horizontal duct
- Up to 135 feet of total hose
- 35 feet maximum from duct



Genuine Miller® Filter and Accessories



Replacement Filter
#300 925



Dual Hose Inlet to Duct Adapter
#301 070
Y-shaped adapter connects four-inch duct to one or two hose attachments.



Flexible Funnel Magnetic Nozzle
#300 668



Slotted Magnetic Nozzle
#300 669 11.8 in. (300 mm) width
#300 670 23.6 in. (600 mm) width



Four-Inch Duct Adapter
#300 974
Easy-to-install panel adapts four hose inlets to single four-inch duct inlet.



Collection Hose
#300 672 17 ft. (5.2 m)
#300 673 34 ft. (10.4 m)

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
FILTAIR® 400	#300 894	Industrial high-vacuum system. Order Collection Hoses separately		
Recommended Fume Gun				
Bernard® FILTAIR® Extraction Gun		300 or 400 A MIG guns available. See above for more information		
Accessories				
Replacement Filter	#300 925			
Four-Inch Duct Adapter	#300 974	Adapts four hose inlets to single four-inch duct inlet		
Dual Hose Inlet to Duct Adapter	#301 070	Connects four-inch duct to one or two hose attachments		
Collection Hose	#300 672 #300 673	17 ft. (5.2 m) 34 ft. (10.4 m)		
Flexible Funnel Magnetic Nozzle	#300 668			
Slotted Magnetic Nozzle	#300 669 #300 670	11.8 in. (300 mm) width 23.6 in. (600 mm) width		

Date:

Total Quoted Price:

**Please call toll-free 855-FILTAIR (855-345-8247)
for information on fume extraction solutions.**



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