

FILTAIR[®] Industrial Centralized Weld Fume Extraction Series

A Leader in Welding Innovation

At Miller, we've built our legacy on hard work, hands-on welding know-how and dependable equipment — all backed by unrivaled support. All of our products are made with the quality, toughness and reliability customers have come to expect from Miller. A leader in the welding industry, we constantly strive to provide a complete line of innovative solutions tailored to your welding needs.

Miller offers weld fume extractors exclusively designed for welding applications



Watch as Fumes Vanish into FILTAIR®

Your skilled welders are a valuable resource, and investing in a healthier working environment through fume extraction gives you an edge in attracting and retaining your workers.

FILTAIR Industrial Centralized Weld Fume Extractors can improve your operating efficiency in many ways, including:

- Higher productivity levels and fewer employee absences
- Healthier, more motivated employees and improved job satisfaction
- Less downtime spent cleaning welding helmet lenses
- Cleaner shop equipment and lower insurance premiums

Your total weld fume solution

Miller offers a complete line of solutions for extracting weld fumes for all types of jobs and workspaces. We've developed our family of air filtration systems exclusively for welding applications to help you stay in compliance with environmental regulations.

- FILTAIR single-cell fume extraction products
- FILTAIR Industrial Centralized Weld Fume Extraction Series
- Powered air purifying respirator (PAPR) units
- Bernard® fume guns

Clean, healthy work environments
— one submicron at a time



Clean. Compact. Cost-Efficient.

Each FILTAIR® Industrial Centralized Weld Fume Extractor model moves large volumes of air at low velocity and low pressure, making it an ideal solution for industrial applications. Five base models ranging from 2,000 to 12,000 cubic feet per minute (cfm) can be customized for a wide variety of welding environments.

FILTAIR extraction arms remove welding fumes at the point where welding is done — the “source.” Drawing the welding fumes from within 6 to 15 inches of the welding arc, each arm connects to the central FILTAIR filtration units through a network of ducts. This allows a single extraction unit to remove fumes from multiple welding sources.

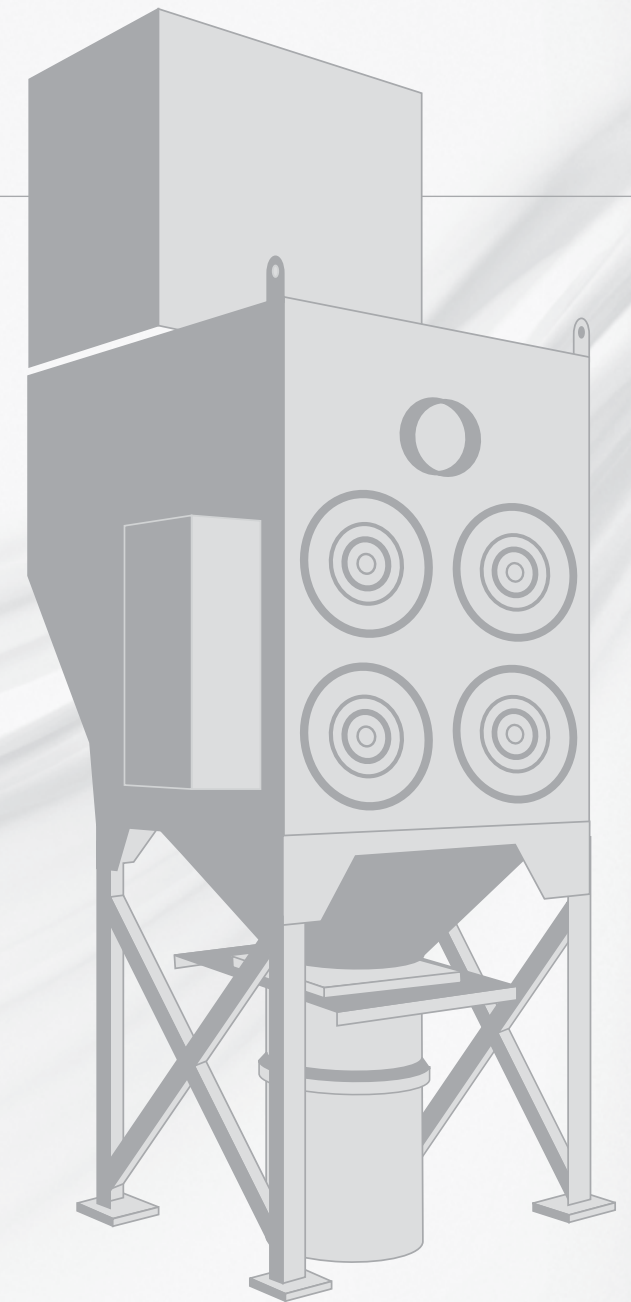
FILTAIR Industrial Centralized Weld Fume Extractors offer:

- 65% smaller footprint than cartridge units
- Higher-efficiency filtering that slashes operating costs
- Superior suction power to ensure long-lasting airflow
- Assembled models up to 12,000 cfm for easy installation



FILTAIR® Industrial Centralized Weld Fume Extractors require up to **65% less floor space** than traditional cartridge collectors

The profile of a FILTAIR® 4000 Industrial Centralized Weld Fume Extractor (below) is compared to the profile of a traditional eight-cartridge filter collector (at right). The required floor space for the FILTAIR footprint is 65 percent less than traditional units, enabling it to fit into tighter spaces.



Revolutionary Filter Technology

Our line of revolutionary TruLock™ filters feature:

- Industry-leading filter media
- Particle surface loading
- High efficiency filtering, including cartridge filters and filter packs
- Optimal fume release quality for easy cleaning

The combination of these contribute to longer filter life.

There's clean, and then there's nano clean

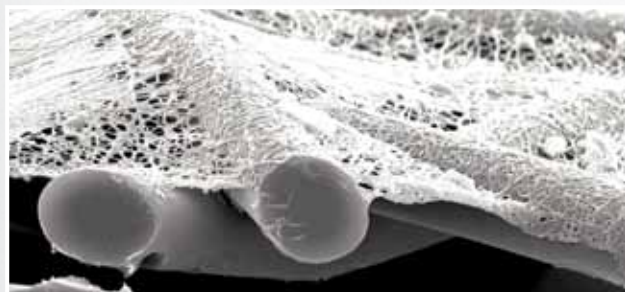
The nanofiber filter pack — part of the Miller TruLock filter line — has an exceptional Minimal Efficiency Reporting Value (MERV) rating of 15 based on American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 52.2 test standards. At that level, it immediately captures up to 95 percent of the submicron particles and quickly begin to filter out up to 99 percent of particles in the submicron range.

Incorporating multiple layers of filtering media, the filter pack traps any welding particle from 0.2 to 1 micron — right on the outer layer of the filter. Other industrial collection systems that rely on cellulose or polyester filters have much lower MERV ratings — from MERV 7 to 11. At those levels, all of the submicron welding particles can pass through the filter media, since they are only efficient collecting dust particles larger than 1 micron.

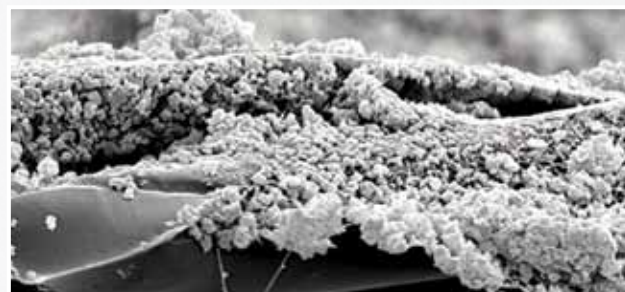
Each nanofiber filter pack layer is stacked in a unique offset configuration that intercepts sub-micron welding fume particles with surface-loading nanofiber filters. For added safety, our filter packs are also flame-retardant.

Not just filters. Nanofiber filters.

Filter media from the filter pack is made up of a durable layer of premium nanofiber designed to capture even the smallest dust and weld fume particles.



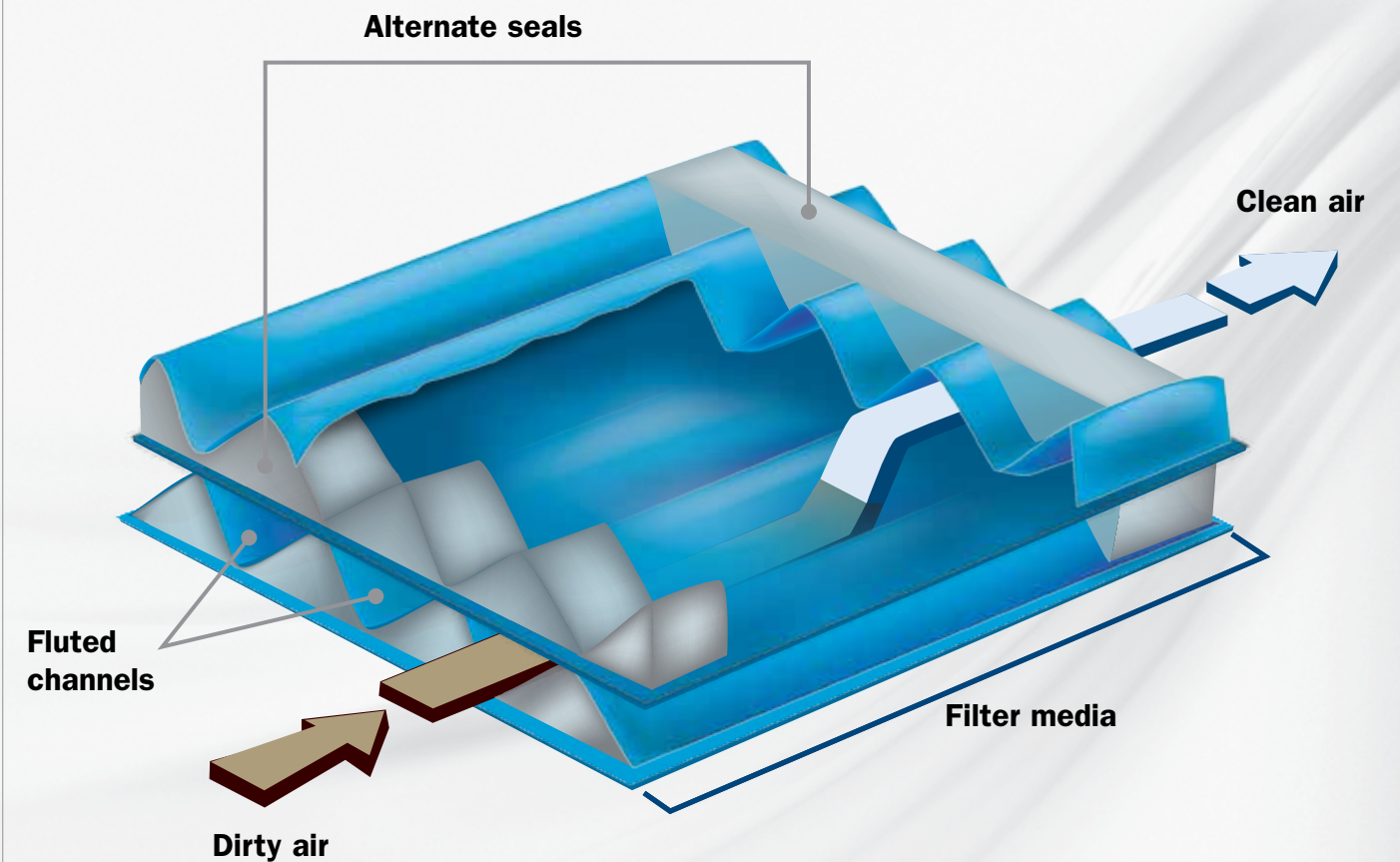
Clean nanofiber media



Surface-loaded nanofiber media (substrate still clean)

Up to **95%** of welding particles generated in your shop or welding environment are smaller than **one micron in size**

How the nanofiber filter pack works



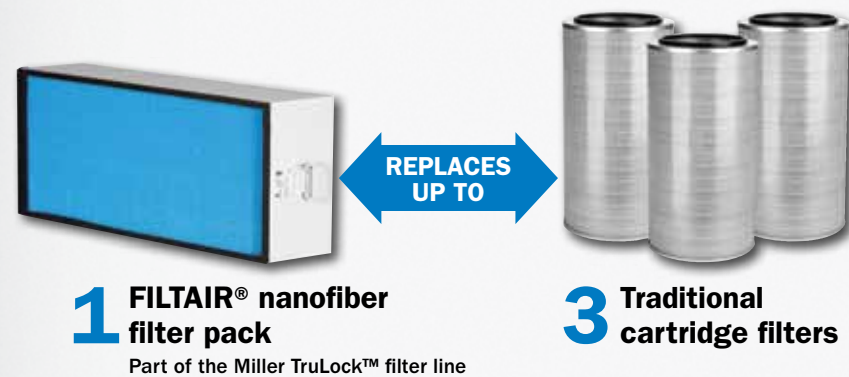
- 1 Dirty air** enters an open flute on the dirty-air side of the filter pack.
- 2 Filter media** is formed into flutes — these flutes are layered to provide a tight, rugged structure to the filter.
- 3 Fluted channels** are alternately sealed, allowing air to enter through an open flute and forcing it to exit out an adjacent flute.
- 4 Clean air** — The now filtered air exits the filter pack through a flute that is open on the clean-air side of the filter pack.

Dramatic Savings in Operating Costs

Nanofiber filter pack technology offers you the best combination of efficiency, economy and filter performance. You'll cut costs through easier filter-cleaning, less-frequent filter pack replacement and dramatically less maintenance time.

Smaller package, bigger savings

The revolutionary filter pack technology allows for its expanded filtration ability to be packed into a significantly smaller space. Combined with its exceptional MERV rating of 15, this technology allows one filter pack to replace up to three traditional cartridge filters.



Easy, low-cost filter pack maintenance

- Nanofiber filter packs have easy-grip handles, eliminating the need for replacement tools.
- Filter packs remain below the 50-pound OSHA Lift Limit, even at the end of their life cycle.
- No tools are required for maintenance.



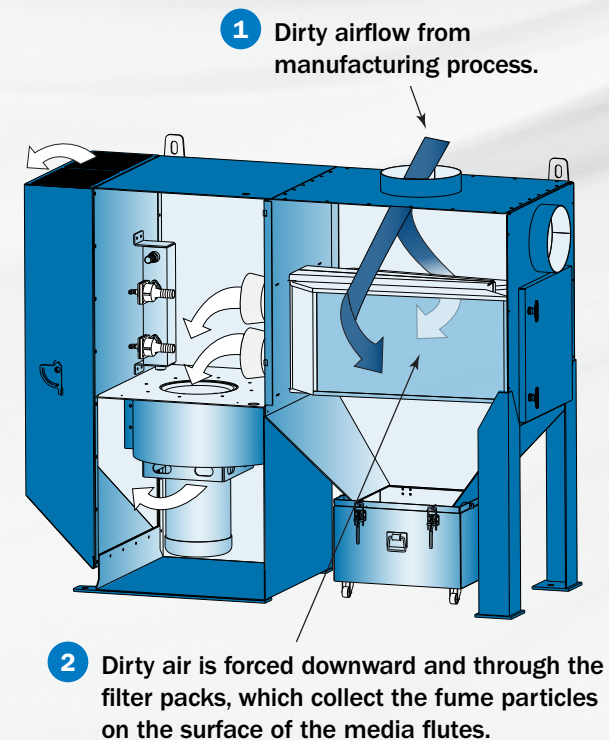
- 1** Open the T-Handles on the front access door.
- 2** Open the filter locks for instant access.
- 3** Quickly install a new, lightweight nanofiber filter pack.

Result: Longer filter pack life, less-frequent filter pack replacement and less maintenance, which **saves significant dollars**

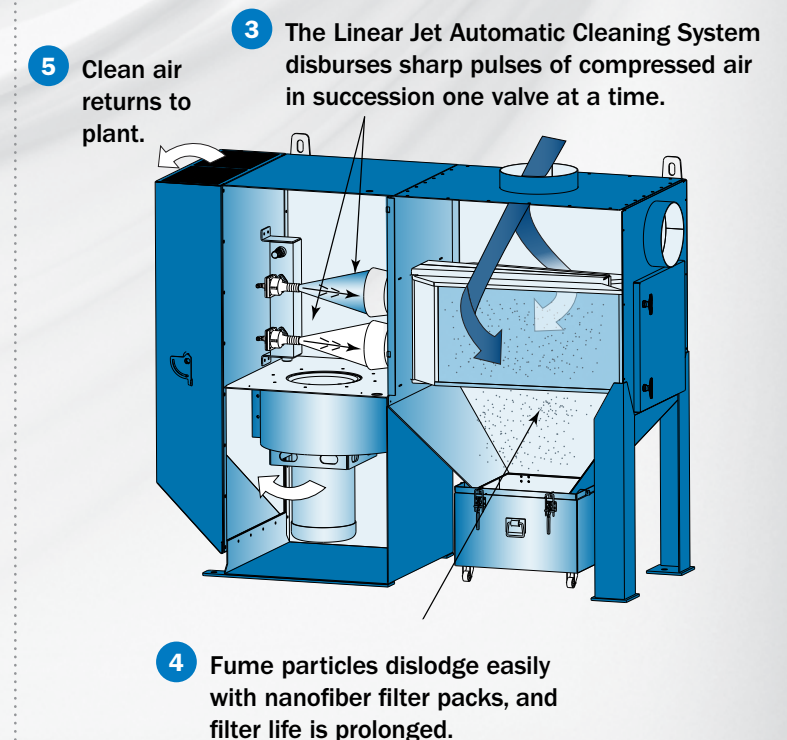
Auto cleaning extends filter pack life

- The Linear Jet Automatic Cleaning System in the FILTAIR® Industrial Centralized Weld Fume Extractors works in tandem with nanofiber filter media.
- Because the nanofiber filter pack is surface loading, weld fume particles don't penetrate deeply, and they are more easily released during cleaning.
- Linear jets deliver maximum cleaning energy in straight-line compressed-air bursts throughout the filter material — easily ejecting particles out of the fluted channels with reverse pulse cleaning action.

Normal operation



Filter cleaning operation



Maximum Suction Power

Miller designed the FILTAIR® Industrial Centralized Weld Fume Extraction Series specifically for the rugged demands of the industrial welding workplace. Every FILTAIR model meets our endurance standards for quality, toughness and maximum airflow. With FILTAIR's superior suction power, you are ensured powerful and longer-lasting airflow, even after extended periods of use.



Customize a Complete FILTAIR® Solution

FILTAIR Industrial Centralized Weld Fume Extractors feature strong yet sleek, all-welded housings that make them ideal as stand-alones on the plant floor or integrated into an OEM design. Each FILTAIR unit is shipped completely assembled and ready for installation. See our line of accessories and ducting to complete your system.

Customize a complete fume extraction solution by combining any of the FILTAIR base models ranging from 2,000 to 12,000 cfm in a combination that works for any welding environment.

FILTAIR 2000

FILTAIR 4000

FILTAIR 6000

FILTAIR 8000

FILTAIR 12000



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Install a customized, flexible FILTAIR source-capture system, and start seeing the benefits. For a free quote call toll-free 855-FILTAIR (345-8247) today.



MillerWelds.com/filtair

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