Tri-Flow Compact Filters
HEPA Performance, MERV 16 Rating

Filter life is 3-5X
that of conventional
bags or cartridges

Tri-Mer® CORPORATION

www.tri-mer.com

Why It's Different

Tri-Flow is a revolutionary new filter for submicron particulate collection, offering HEPA level efficiency with a MERV rating of 16. This is far superior to bags and cartridges, which typically are rated MERV 10-13.

Its exceptionally large filter surface area and small envelope/footprint make it ideal for applications such as mining and tunneling equipment, laser cutting, food processing, pharmaceutical manufacturing, and powder coating. It is also ideal for any extremely fine particulate, including difficult applications involving hazardous dusts.

7 Key Advantages:

1. HEPA level air filtration
2. A MERV 16 rating with incredibly low emissions
3. A design that offers in-line cleaning and recovery to maintain low operating pressure drops
4. Extremely long filter life: 3-5 times that of a typical cartridge
5. Cost-effective compliance with newly stringent stack emissions standards
6. Efficiencies of 99.999% on 0.5 micron and larger particles (by weight) can be expected
7. For many basic dust applications, Tri-Mer Corporation stocks MERV 13-15 filter elements for immediate use with the standard Tri-Flow Collector!

Easy Maintenance

Compact Tri-Flow filter elements have a multi-year service life, and are easy to maintain using an integral pulse-jet cleaning system.

Filter change-out is simple and "tool-free," and is done from the clean air plenum side, from outside the collector. No entering of the dirty air plenum is required for servicing. This makes filter changes easy, and eliminates concerns about employee exposure to contaminated dust within a confined area.

Tri-Flow Compact Filters Have Greater Filter Area

Tri-Flow Compact High Efficiency filters have 2-3 times more active filtration area compared to similarly dimensioned filters. An even greater increase in filtration area vs. volume is achieved in comparisons with traditional bag and cartridge filters.

Reducing the size of a filter not only minimizes manufacturing expense, but gives the OEM or end user valuable flexibility on where to locate the filter. The modular design of the Tri-Flow allows it to be configured into a limited floor space, or under low ceiling constraints.

Built to Last

Tri-Flow Compact Filters are self-supporting, and are manufactured using proprietary filter media tailored to the application. All media is pleated and continuously bonded for maximum dimensional stability and filtration integrity. A rigid base molding protects the element; a resilient mounting flange provides an excellent dust seal, preventing bypass.

Edge protection strips improve stability and prevent accidental damage. An aerodynamic, venturi-shaped top end cap optimizes pulse cleaning efficiency.

The end result is rugged filter construction, and a filter system that combines exceptional performance with one of the lowest life cycle operating costs in the industry.

When the priority is overall filter efficiency and outlet emission standards, Tri-Flow from Tri-Mer Corporation is the superior choice for applications including food processing, pharmaceutical manufacturing, mechanical blasting, laser and plasma cutting, mining, and many others.

Tri-Flow high efficiency filter technology offers a unique choice approaching HEPA level filtration in a self-cleaning configuration, at an affordable entry level cost, with a filter life 3-5 times that of conventional bag or cartridge-type filters.

Tri-Flow Media

- Polyester felt hydrophobic + oleophobic polyester felt with higher temperature resistance for general applications
- Polyester felt, antistatic polyester felt antistatic hydrophobic + oleophobic polyester felt antistatic with higher temperature resistance to dissipate electrostatic build-up for general applications
- Polyester felt with micro porous surface filtration for fine dusts
- Polyester felt, MF-coated antistatic with microporous surface to dissipate electrostatic build-up surface filtration for fine dusts.
- Polyester-nonwoven with microfiber surface for fine dusts
- Polyester-nonwoven with PTFE membrane surface filtration for fine dusts, and fumes
- Polyester-nonwoven with PTFE membrane, antistatic to dissipate potential static

Tri-Flow Plant Enclosure Offers Exceptional Protection from Dust and Noise

The Tri-Flow enclosure was engineered for in-plant areas where dirty and/or noisy tasks must be confined to protect surrounding operations, products, and workers.

Like the Tri-Flow Compact Filter System, the Tri-Flow Environmental Control Booth provides HEPA level filtration performance. Perforated acoustical panels contain and absorb noise generated inside the booth, and maintain a quiet environment in the surrounding plant. We also offer a directional wall and ceiling panel assembly used exclusively for environmental dust control.

Tri-Mer is the Technology Leader in Air Pollution Control

- UltraCat catalytic filters to remove PM, SO2, HCl, NOx, dioxins, Organic HAPs, and CO, with NOx control as low as 350°F
- Tri-NOx® Multi-Chem NOx wet scrubber system for handling any NO/NO2 ratio with the guarantee of a clear stack, free of NO2 plume
- Cloud Chamber system for PM2.5, fine, submicron, ultrafine, and condensable particulate as well as PM10 and more coarse particles; also soluble acid and caustic gases
- Vertical and Horizontal Packed Bed wet scrubbers for corrosive acid gases, odors and other chemical applications
- Whirl Wet high-efficiency wet dust collectors for soluble and insoluble dusts 2 microns and above
- Exhaust assemblies, exhaust blowers, interconnecting duct systems, hoods, stacks, tanks
- On-site project management
- Complete installation and/or supervision on site; start-up and training

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www.tri-mer.com

1400 Monroe St. • P.O. Box 730 • Owosso, MI 48867-0730
Phone (989) 723-7838 • FAX (989) 723-7844
Email: salesdpt@tri-mer.com