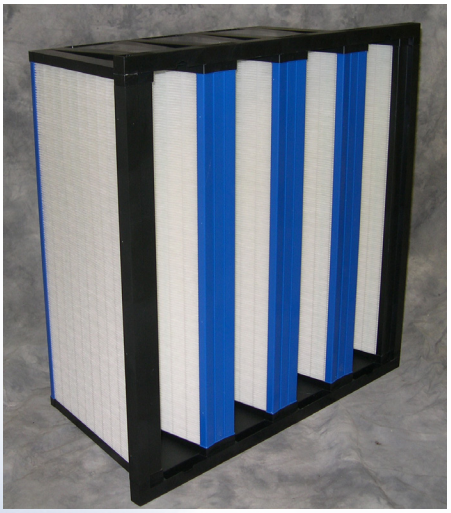
*Performance Engineered Air Filter Products*

Columbus Industries, Inc.

50 YEARS Columbus Industries, Inc. 1965–2015

# MICRO SHIELD®
# Fiberglass 4V-Cell Filters MERV 14A



## Best in Class!

**MICRO SHIELD®** Fiberglass V-Cell Filters are economically engineered with superior performance criteria in all facets of filtration including efficiency, resistance and dust-holding capacity to address today's challenging HVAC system requirements. As a part of the most advanced and innovative line of HVAC filtration products, the **MICRO SHIELD®** Fiberglass V-Cell Filters combine an excellent initial and lifecycle resistance with a high dust-holding capacity. This combination provides optimum filter performance — creating the energy and operating cost savings desired in the demanding HVAC market. The **MICRO SHIELD®** Fiberglass V-Cell Filters are backed by the outstanding customer service and on-time delivery that customers have come to expect from Columbus Industries.

## Description and Benefits

The **MICRO SHIELD®** Fiberglass V-Cell Filters are engineered to protect both expensive HVAC equipment and people from dirty air and its damaging effects. This filter is ultra-violet resistant. The filter will not breakdown is UV light is used to kill organisms in the airstream. The user-friendly filter is also lightweight, durable and easy to install. The new design also includes molded finger grips for easy installation and handling. The V-Cell Filters are available in both gasketed and non-gasketed versions.

Our specially engineered media is formed into a self-supporting pleat pack that employs glue bead separators for added strength. Each pleat pack is then sealed into an all-plastic, molded frame. This plastic frame utilizes a positive seal, interlocking design with heavy, molded-in lift handles. Also molded into each frame are spring type mounting clip holes, dedicated upstream pre-filter mounting clip locations and solid header surfaces for upstream, downstream and side-to-side gasket applications. These design and construction features combine to produce the industry leading performance in airflow, efficiency and dust-loading uniformity.

Looking for LEED certification? The **MICRO SHIELD®** Fiberglass V-Cell Filters are the perfect solution if you want to specify or upgrade your current filtration to meet LEED certification requirements. With these high performance filters, your facility can gain points toward LEED certification — also there are tax incentives for LEED's program. The **MICRO SHIELD®** Fiberglass MERV 14A Filters meet efficiency standards outlined in the LEED program for new construction and existing buildings.

## Quick Facts

### Features:

- Fully incinerable
- Provides lower energy consumption
- Provides lower operating cost especially in VAV systems
- Meets requirements for LEED certification
- Provides an economical and high efficiency upgrade with less energy consumption
- Ultra- violet light resistant

### Applications:

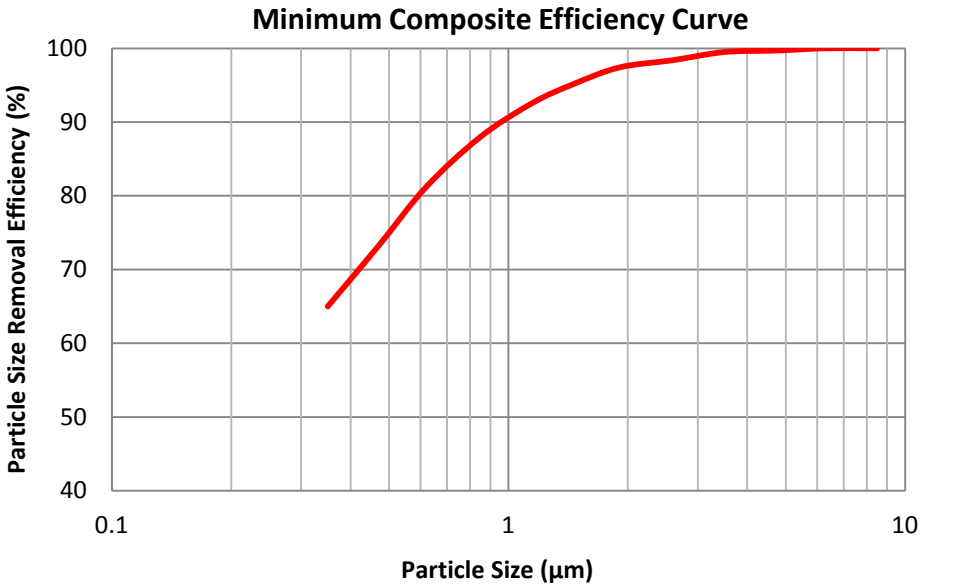
- Commercial and industrial facilities
- Government and educational facilities
- Paint booth/finishing
- Hospitals, research labs and pharmaceuticals
- Airports
- Electrical manufacturing
- Power generators

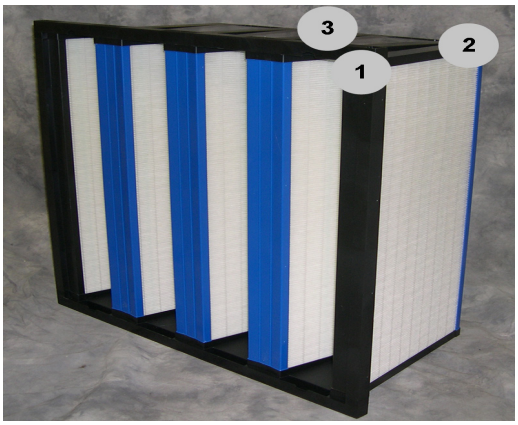
### Technical Information:

- Available in 12 X 24 X 12, 20 X 24 X 12 and 24 X 24 X 12
- Tested in accordance with ASHRAE Test Standard 52.2-2007
- UL Standard 900 tested and approved
- Temperature rated up to 160˚F
- Newly designed all-plastic frame is fully incinerable and features:
  - Strong lift handles/finger grips
  - Downstream mounting clip holes
  - Upstream pre-filter clip locations
  - Solid header surfaces for gasket applications
  - Positive gasket seals
  - Available with and without gasket

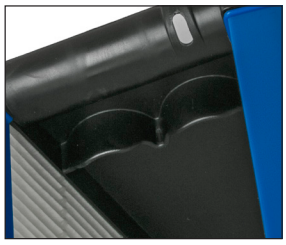
# MICRO SHIELD® Fiberglass 4V-Cell Filters MERV 14A

| Filter Size Nominal | Filter Size Exact | Rated Airflow Capacity (CFM) | | Initial Airflow Resistance (in w.g.) | | Media Area |
|---|---|---|---|---|---|---|
| | | Med | High | Med | High | |
| 12 X 24 X 12 | 11-3/8 X 23-3/8 X 11-1/2 | 1000 | 1250 | 0.43 | 0.51 | 100 |
| 20 X 24 X 12 | 19-3/8 X 23-3/8 X 11-1/2 | 1670 | 2080 | 0.43 | 0.51 | 155 |
| 24 X 24 X 12 | 23-3/8 X 23-3/8 X 11-1/2 | 2000 | 2500 | 0.43 | 0.51 | 190 |



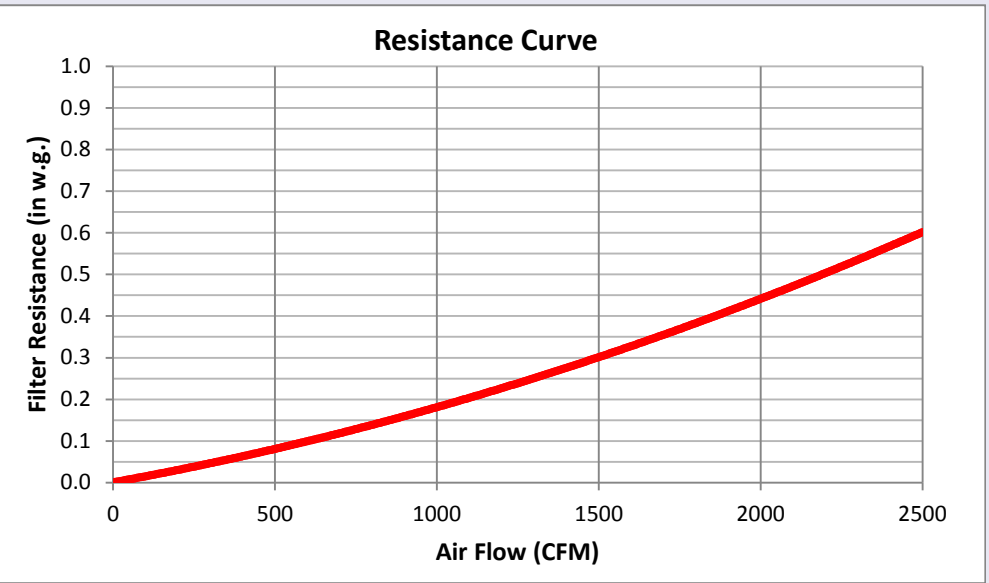



1. Slotted frames allow for easy pre-filter attachment to the V-cell



2. Mounting clip location and finger grips for ease of installation

3. Strong built-in handle for ease of installation





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Columbus Industries, Inc.

2938 State Route 752 • P.O.Box 257 • Ashville, Ohio 43103-0257
Phone: 740.983.2552 • Fax: 740.983.4622
www.colind.com • E-mail: ci@colind.com



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