

CI MICRO SHIELD™ V-Cell Filters MERV 15 & 16+



CI **MICRO SHIELD™** V Filters are 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 CI **MICRO SHIELD™** V 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 CI **MICRO SHIELD™** V 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 CI **MICRO SHIELD™** V Filters are high-efficiency air filters designed to handle virtually any HVAC application. Each filter utilizes a technologically advanced media that incorporates a dual-layer, gradient-density fiber structure that results in exceptionally low airflow resistance, at the highest efficiency levels – reducing both energy and operating costs.

These high-performance filters will improve indoor air quality and remove contaminants from HVAC environments. The CI **MICRO SHIELD™** V Filters are engineered to protect both expensive HVAC equipment and workers from dirty air and its damaging effects. The user-friendly filter is also lightweight, durable and easy to install.

Our specially engineered media is formed into a self-supporting pleat pack that utilizes a glue bead separator. Each pleat pack is then sealed into an all-plastic frame. Unlike most competitors, Columbus Industries uses a unique 6-panel, 3V configuration that provides superior performance at an economical cost. Each stage of our assembly process is quality controlled to ensure the performance, consistency and durability of each filter. These design and construction features combine to produce the best all-around performance in airflow, efficiency and dust-loading uniformity.

Looking for LEED certification? The CI **MICRO SHIELD™** V 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 – without incurring large operating cost increases. The CI **MICRO SHIELD™** V Filters meet efficiency standards outlined in the LEED program for new construction and existing buildings.

Quick Facts

Features:

- Provides lower initial resistance
- Provides lower energy consumption
- Provides lower operating cost
- Meets requirements for LEED certification
- Provides an economical and higher efficiency upgrade for most applications

Applications:

- Commercial and industrial facilities
- Pharmaceutical
- Government and educational facilities
- Hospitals
- Paint booth/finishing

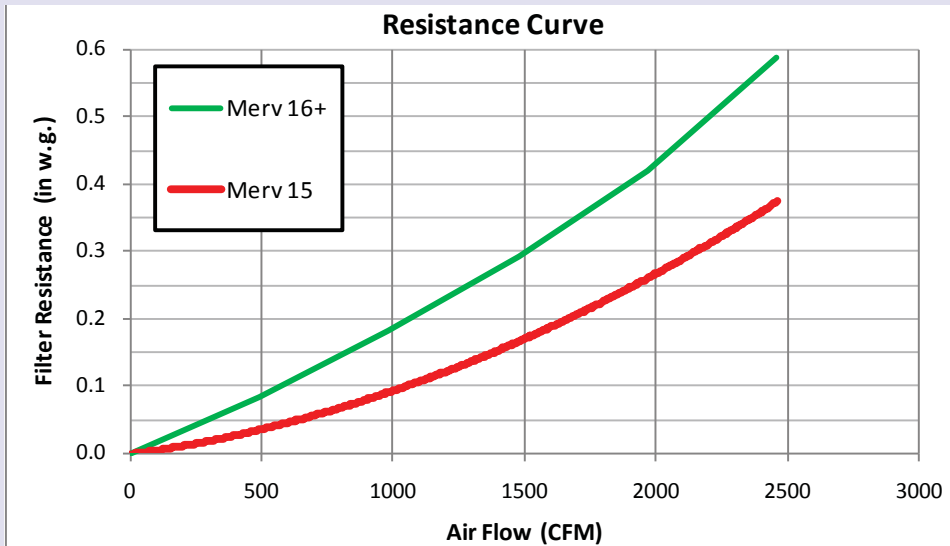
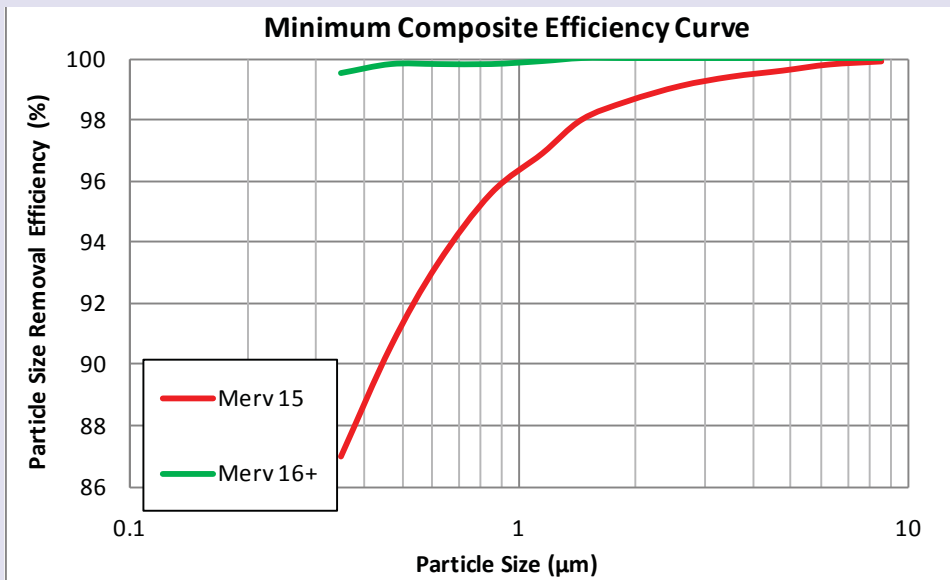
Technical:

- Available in 12x24x12, 20x24x12 and 24x24x12
- Available in MERV 15 and 16+
- Tested in accordance with ASHRAE Test Standard 52.2-2007
- UL Standard 900 tested and approved
- Temperature rated up to 160°F
- All plastic frame and fully incinerable

CI MICRO SHIELD™ V-Cell Filters

	Filter Size Nominal	Filter Size Exact	Rated Air Flow Capacity (CFM)		Initial Air flow Resistance (in W.G.)		Media Area
			Med	High	Med	High	
MERV 15	12x24x12	11-3/8x23-3/8x11-1/2	1000	1250	0.27	0.38	31.0
	20x24x12	19-3/8x23-3/8x11-1/2	1670	2080	0.27	0.38	58.0
	24x24x12	23-3/8x23-3/8x11-1/2	2000	2500	0.27	0.38	81.0

MERV 16+	12x24x12	11-3/8x23-3/8x11-1/2	1000	1250	0.42	0.58	48.0
	20x24x12	19-3/8x23-3/8x11-1/2	1670	2080	0.42	0.58	88.0
	24x24x12	23-3/8x23-3/8x11-1/2	2000	2500	0.42	0.58	110.0



Performance Engineered Air Filter Products
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