

3M™ Commercial HVAC Filter

MERV A15 V-Bank with Gasket



Typical Applications

- Hospitals and Healthcare facilities
- Universities / Schools
- Commercial offices
- Airports
- Clean manufacturing facilities
- Hotel and entertainment complexes
- Research facilities

- Industry leading low pressure drop
- Long filter life
- Proprietary factory installed gaskets for consistent reduction of air bypass
- Lightweight frame construction for easy handling and installation
- Available in standard or reverse flow formats



Contributes to earning one point towards LEED® certification process

3M™ V-Bank Filters MERV A15 offer a unique combination of performance and design features to provide high filtration efficiency that may result in a significant reduction in energy consumption and total cost of operation.

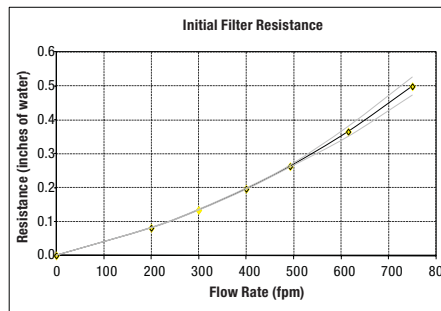
Using 3M technologies, these commercial HVAC filters offer an industry leading combination of low pressure drop, robust efficiency, longevity, low weight as well as unique design features. These design features include nested pleats for reduced pressure drop and highly engineered media with a precise balance of mechanical and electret characteristics. The robust efficiency of these filters is tested to the rigorous industry filter conditioning standard – ASHRAE 52.2: 2007 Appendix J.

3M™ V-Bank Filters are the only HVAC filters that feature innovative integral gaskets. No other manufacturer offers this feature, which helps prevent unfiltered air from flowing past gaps between the filter and the filter rack. The integral gaskets from 3M are factory installed, which not only save time during installation, but ensure that gaskets will be used.

MERV A15 Performance Data

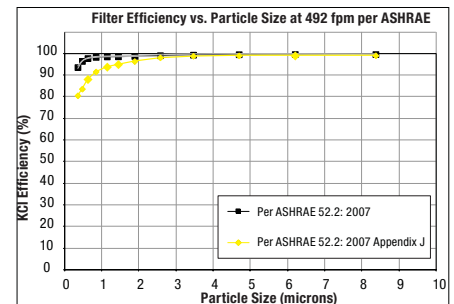
Air Velocity for ASHRAE Testing	492 fpm (1968 cfm for 24" x 24" filter)
Initial pressure drop	0.26" w.g.
Recommended final pressure drop	1.5" w.g.
Efficiency Rating per ASHRAE 52.2: 2007	MERV 16 ¹
Efficiency Rating per ASHRAE 52.2: 2007 Appendix J	MERV A15
Dust Holding Capacity at 1.5" w.g.	215 g

Initial Resistance vs Air Velocity



Average Initial Pressure Drop is 0.26 inches of water @ 492 fpm

Minimum Filter Efficiency vs. Particle Size at 492 fpm per ASHRAE 52.2: 2007



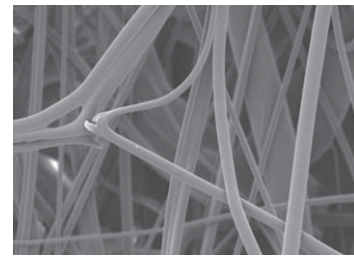
¹ The particle capture efficiency will reduce in actual use. Please visit www.whatisMERVA.com for more information.



3M™ Commercial HVAC V-Bank Filter with Gasket, MERV A15

Key Benefits

- Potential for reduction in electrical energy consumption due to industry leading low initial pressure drop of the 3M™ V-Bank Filters. These Commercial HVAC Filters may lead to substantial energy savings, when compared to competitive V-Bank or box filters with the same efficiency.
- Used alone or in conjunction with 3M Mini-pleat Filters in a prefilter application may result in significant reduction in energy consumption.
- The 3M™ V-Bank Filters with Gasket, MERV A15, meet the Facilities Guidelines Institutes (ANSI / ASHRAE / ASHE Standard 170 - 2008) requirements for hospitals and healthcare facilities where MERV 13 or 14 primary filters are required.
- 3M™ V-Bank Filters have long filter life, due to their unique combination of electret, depth-loading filtration media, the precision pleat structure and high filter media area.
- Factory installed gaskets ensure correct installation and usage, resulting in consistent reduction of air bypass, and eliminate the need to install gaskets on-site.
- Due to their lightweight frame construction, 3M™ V-Bank Filters are easier to handle, transport, and install than many comparable V-Bank filters and metal box filters. Lighter weight is especially important when HVAC filters must be manually carried to the air handler.
- 3M™ V-Bank Filters are 100% synthetic, resulting in moisture and humidity resistant, corrosion free filters that do not support mold growth.
- 3M™ V-Bank Filters are 100% metal free and fully incinerable.
- 3M™ V-Bank Filters meet UL 900 flammability rating (US) and UL 900 Class 2 flammability rating (Canada).
- Using the filter on all outside air intakes and inside air recirculation returns, the 3M™ V-Bank Filters with Gasket MERV A13 and greater ratings, contribute to earning a point in the LEED certification process for new and existing buildings.



Innovative, open filtration media structure

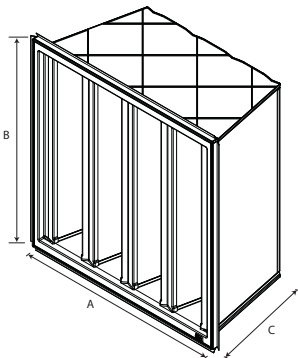


Integral gaskets reduce air bypass, keeping coils clean



Nested pleats for reduced pressure drop

Filter Measurements



Standard Format

	Product No.	3M ID Number	Nominal Dimensions "A" x "B" x "C" Inches (mm)	Width "A" Inches (mm)	Height "B" Inches (mm)	Depth "C" Inches (mm)
MERV A15	E739	70-0714-7184-4	24 x 24 x 12 (610 x 610 x 305)	23 3/8 (594)	23 3/8 (594)	11.9 (302)
	E740	70-0714-7185-1	24 x 20 x 12 (610 x 508 x 305)	23 3/8 (594)	19 3/8 (492)	11.9 (302)
	E741	70-0714-7186-9	24 x 12 x 12 (610 x 305 x 305)	23 3/8 (594)	11 3/8 (289)	11.9 (302)

Reverse Flow Format

	Product No.	3M ID Number	Nominal Dimensions "A" x "B" x "C" Inches (mm)	Width "A" Inches (mm)	Height "B" Inches (mm)	Depth "C" Inches (mm)
MERV A15	E760	70-0714-7206-5	24 x 24 x 12 (610 x 610 x 305)	23 3/8 (594)	23 3/8 (594)	11.9 (302)
	E763	70-0714-7209-9	24 x 20 x 12 (610 x 508 x 305)	23 3/8 (594)	19 3/8 (492)	11.9 (302)
	E766	70-0714-7212-3	24 x 12 x 12 (610 x 305 x 305)	23 3/8 (594)	11 3/8 (289)	11.9 (302)

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IMPORTANT USE RESTRICTIONS: DO NOT EXPOSE THIS FILTER DIRECTLY TO UV RADIATION FROM A UV PURIFICATION SYSTEM. EXCESSIVE UV EXPOSURE MAY LEAD TO A REDUCTION IN THE MECHANICAL INTEGRITY AND PERFORMANCE OF THE FILTER. THIS FILTER MUST NOT BE USED FOR THE FOLLOWING UNAUTHORIZED USES: A) ASBESTOS, LEAD OR MOLD REMEDIATION; B) BIOTERRORISM PROTECTION; C) APPLICATIONS IN BUILDINGS THAT REQUIRE OR ARE UNDERGOING AIR HANDLING SYSTEM REMEDIATION OF HAZARDOUS SUBSTANCES; OR (D) PROTECTIVE ENVIRONMENTS PER AIA GUIDELINES.



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