

3M™ Commercial HVAC Filter Products Overview

V-Bank Filters with Gasket



Contribute to earning one point towards LEED® certification process



MERV A13 / MERV 14¹

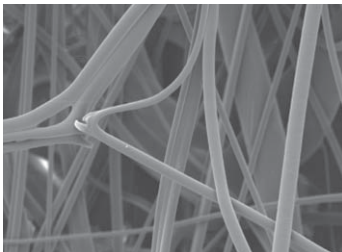


MERV A14 / MERV 15¹



MERV A15 / MERV A16¹

Industry leading low pressure drop
 Long filter life
 Factory installed gaskets for consistent reduction of air bypass
 Lightweight frame construction for easy handling and installation



Innovative, open filtration media structure



Integral gaskets reduce air bypass, keeping coils clean



Nested pleats for reduced pressure drop

3M™ V-Bank Filters MERV A13, MERV A14 and MERV A15 offer our customers a unique combination of performance and design features including integral gaskets and nested pleat packs. These filters are an excellent choice for building owners and facility managers looking to reduce their energy utilization and minimize their total cost of operation, while still providing building occupants with high quality filtered air.

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.

Typical Applications:

MERV A13

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

MERV A14 and MERV A15

- Hospitals and Healthcare facilities
- Research laboratories
- Pharmaceutical companies
- Clean manufacturing facilities
- Airports
- Commercial offices
- Universities / Schools

¹ The particle capture efficiency will reduce to the MERV-A reporting value in actual use. Please visit www.whatisMERVA.com for more information.



Key benefits

Some of the key benefits our customers may enjoy when using 3M™ V-Bank Filters with Gasket:

- 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.
- 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.
- The 3M V-Bank Filters MERV A13 and A14 with Gasket 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.
- The factory installed gaskets of 3M V-Bank Filters eliminate the need for additional labor 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).

MERV A13

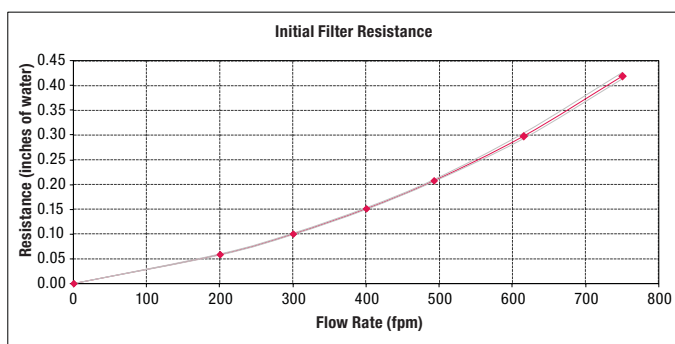


MERV A13 Performance Data

Air Velocity for ASHRAE Testing	492 fpm (1968 cfm for 24" x 24" filter)
Initial pressure drop	0.21" w.g.
Recommended final pressure drop	1.5" w.g.
Efficiency Rating per ASHRAE 52.2: 2007	MERV 14 ¹
Efficiency Rating per ASHRAE 52.2: 2007 Appendix J	MERV A13
Dust Holding Capacity at 1.5" w.g.	225 g

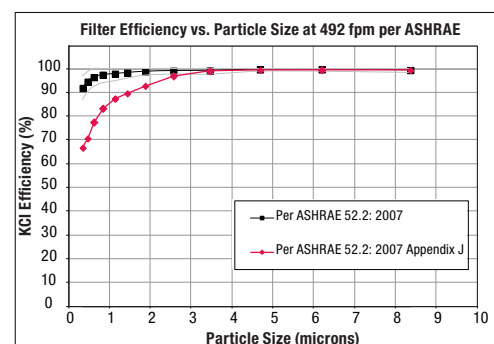
Important use restriction: This filter must not be used as a primary filter in hospitals and healthcare facilities where a MERV 14 primary filter is required per ASHRAE 170 - 2008. 3M recommends the use of 3M™ Commercial HVAC Filter Products with a minimum rating of MERV A14.

Initial Resistance vs Air Velocity



Average Initial Pressure Drop is 0.21 inches of water @ 492 fpm

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



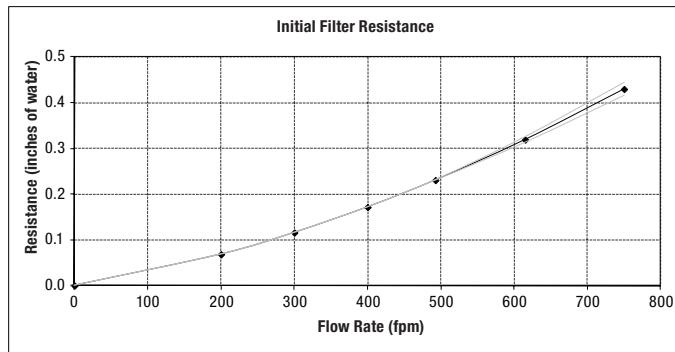
MERV A14



MERV A14 Performance Data

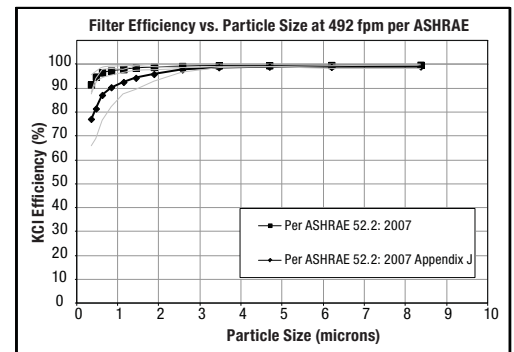
Air Velocity for ASHRAE Testing	492 fpm (1968 cfm for 24" x 24" filter)
Initial pressure drop	0.23" w.g.
Recommended final pressure drop	1.5" w.g.
Efficiency Rating per ASHRAE 52.2: 2007	MERV 15 ¹
Efficiency Rating per ASHRAE 52.2: 2007 Appendix J	MERV A14
Dust Holding Capacity at 1.5" w.g.	235 g

Initial Resistance vs Air Velocity



Average Initial Pressure Drop is 0.23 inches of water @ 492 fpm

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



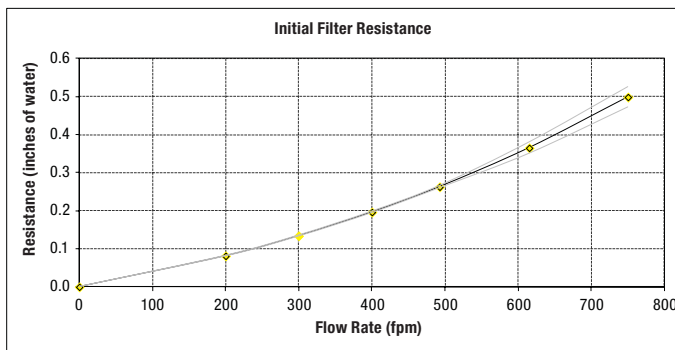
MERV A15



MERV A15 Performance Data

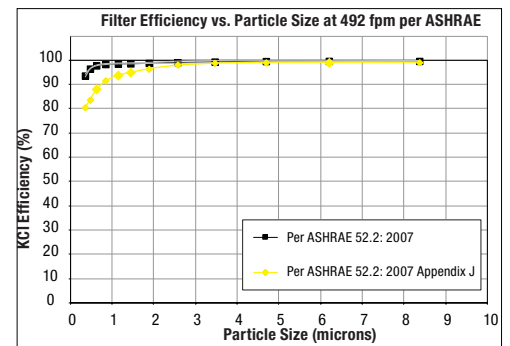
Air Velocity for ASHRAE Testing	492 fpm (1968 cfm for 24" x 24" filter)
Initial pressure drop	0.26" w.g.
Recommended final pressure drop	1.5" w.g.
Efficiency Rating per ASHRAE 52.2: 2007	MERV 16 ¹
Efficiency Rating per ASHRAE 52.2: 2007 Appendix J	MERV A15
Dust Holding Capacity at 1.5" w.g.	215 g

Initial Resistance vs Air Velocity



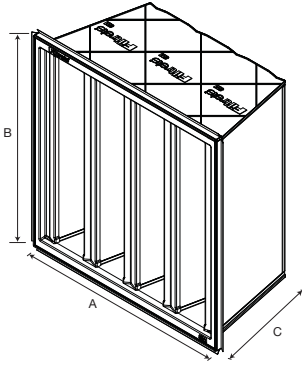
Average Initial Pressure Drop is 0.26 inches of water @ 492 fpm

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



¹ The particle capture efficiency will reduce to the MERV-A reporting value in actual use. Please visit www.whatisMERVA.com for more information.

Filter Measurements



	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 AT3	E758	70-0714-7204-0	24 x 24 x 12 (610 x 610 x 305)	23 3/8 (594)	23 3/8 (594)	11.9 (302)
	E761	70-0714-7207-3	24 x 20 x 12 (610 x 508 x 305)	23 3/8 (594)	19 3/8 (492)	11.9 (302)
	E764	70-0714-7210-7	24 x 12 x 12 (610 x 305 x 305)	23 3/8 (594)	11 3/8 (289)	11.9 (302)
	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 AT4	E759	70-0714-7205-7	24 x 24 x 12 (610 x 610 x 305)	23 3/8 (594)	23 3/8 (594)	11.9 (302)
	E762	70-0714-7208-1	24 x 20 x 12 (610 x 508 x 305)	23 3/8 (594)	19 3/8 (492)	11.9 (302)
	E765	70-0714-7211-5	24 x 12 x 12 (610 x 305 x 305)	23 3/8 (594)	11 3/8 (289)	11.9 (302)
	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 AT5	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)

Additional Information

For questions or to place an order in the U.S., contact your local 3M Purification Inc. distributor or 3M Purification Inc. Customer Service at (800) 648-3550 or (651) 789-7381

IMPORTANT NOTICE: The information in this literature is based on tests 3M believes are reliable. It is not and should not be relied on as a product or technical specification. We do not guarantee the accuracy of this information. If any products described in this literature are defective, 3M will replace them at no charge. THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES FOR THESE PRODUCTS, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. You are responsible for determining whether products described in this literature are fit for a particular purpose and suitable for your application. Because there are many factors within your knowledge and control that might affect the use and performance of these products, you must evaluate these products to determine whether they are fit for a particular purpose, are suitable for your application, and meet your performance expectations. 3M IS NOT LIABLE FOR ANY LOSS OR DAMAGES, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL ARISING OUT OF THE USE OF OR INABILITY TO USE ANY OF THESE PRODUCTS.

CAUTION: USED FILTERS MAY CONTAIN CONTAMINANTS FROM OPERATION OF THE HVAC SYSTEM. FOR PROPER HANDLING OF USED FILTERS, CONSULT APPLICABLE HEALTH AND SAFETY STANDARDS OR CONTACT AN INDUSTRIAL HYGIENIST. TO REDUCE RISK OF ILLNESS OR INJURY, ALWAYS USE APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING WHEN REMOVING OR HANDLING USED FILTERS. DISPOSE OF USED FILTERS ONLY IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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.



3M Purification Inc.

400 Research Parkway
Meriden, CT 06450
U.S.A.
(800) 648-3550
(651) 789-7381
www.3mpurification.com/airfilters

3M is a trademark of 3M Company.
LEED is a trademark of the U.S. Green
Building Council.
© 2014 3M Company. All rights reserved.
Please recycle. Printed in U.S.A.

70-0202-8829-9
REV 0214

Your Local Distributor: