

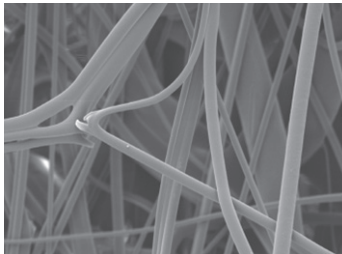
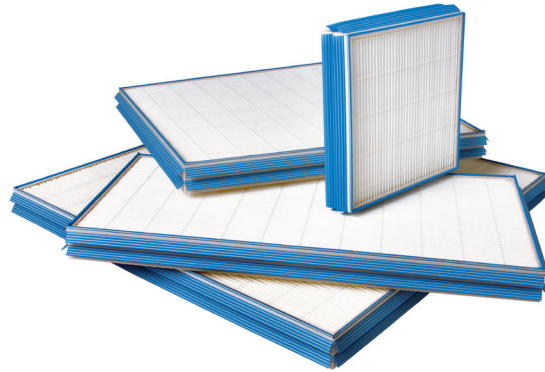
# 3M™ Commercial HVAC Filter

## MERV A12 Mini-Pleat with Gasket

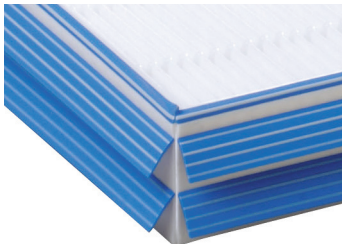


### Typical Applications

- Hotels and entertainment complexes
- Commercial offices
- Universities/Schools
- Government institutions



Innovative, open filtration media structure



Integral gaskets prevent air bypass, keeping coils clean



Glue beads maintain pleat spacing integrity

The 3M™ Commercial HVAC Filter MERV A12 is a mini-pleat filter, using 3M media technology. The filter provides robust filtration efficiency in the most extreme commercial office building HVAC environments due to the innovative filtration media. The precise balance of mechanical and electret elements is validated by the rigorous industry filter conditioning standard — ASHRAE 52.2: 2007 Appendix J.

### Key Benefits

Using innovative 3M technology, 3M Commercial HVAC Filter MERV A12 is built around the HVAC system needs of our customers. Some of the key benefits our customers can enjoy when using 3M Commercial HVAC Filter MERV A12 are:

- Significant energy savings possible when installed in place of standard filters due to low pressure drop achieved through the use of our highly refined electrostatically charged media (electret media), open filtration media structure and high surface area mini-pleat design
- Longer filter life than competitive products due to the unique combination of depth loading filtration media, precise pleat structure and high filter media area
- Minimized air bypass around and between filters common in damaged or misaligned air handling racks due to innovative filter frame with integrated gaskets
- Reduced labor hours due to simple, hassle-free installation, supported by the innovative slip-rib frame design and excellent filter life
- Reduced chance of filter damage during handling and installation due to the integrally supported pleats, impact resistant synthetic frame materials and fully encapsulated pleat-frame bond
- Far less storage space required compared to many filters of same efficiency resulting from the high performance 2" mini-pleat filter format
- Significant energy value and low ash content resulting from 100% incinerable components of the filter
- Meets UL 900 flammability rating (US) and UL 900 Class 2 flammability rating (Canada).

### Performance Data

Air Velocity for ASHRAE Testing	492 fpm (1968 cfm for 24" x 24" filter)
Initial Pressure Drop	0.37" w.g.
Recommended Final Pressure Drop	1.4" w.g.
Efficiency Rating per ASHRAE 52.2: 2007	MERV 14 <sup>1</sup>
Efficiency Rating per ASHRAE 52.2: 2007 Appendix J	MERV A12
Dust Holding Capacity at 1.4" w.g.	93 ± 21 g

**Important use restriction: This filter must not be used as a primary filter in hospitals and healthcare facilities where a MERV 13 or 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.**

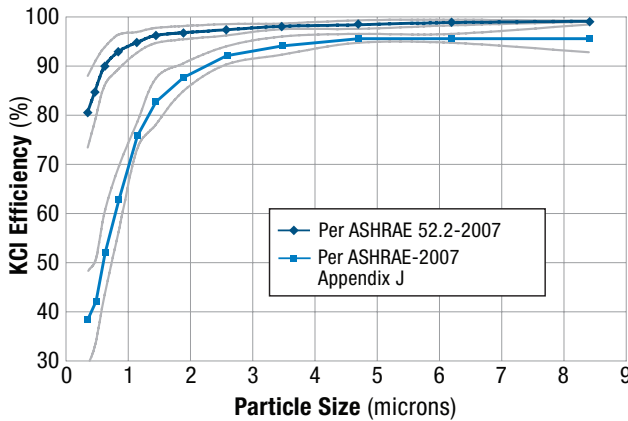
<sup>1</sup> The particle capture efficiency will reduce in actual use. Please visit [www.whatisMERVA.com](http://www.whatisMERVA.com) for more information.



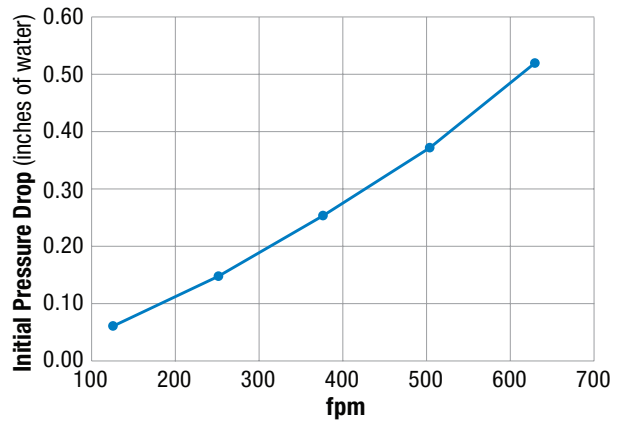
# 3M™ Commercial HVAC Mini-Pleat Filter with Gasket, MERV A12

## Physical Characteristics

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

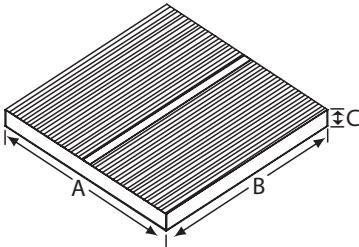


Initial Pressure Drop vs. Air Velocity 24" x 24" Filter



Average Initial Pressure Drop is 0.37" w.g.

## 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)
E133	70-0708-1943-1	10 x 10 x 2 (254 x 254 x 51)	9 3/8 (238)	9 3/8 (238)	1 7/8 (48)
E125	70-0708-1935-7	12 x 20 x 2 (305 x 508 x 51)	11 3/8 (289)	19 3/8 (492)	1 7/8 (48)
F978	70-0708-1806-0	12 x 24 x 2 (305 x 610 x 51)	11 3/8 (289)	23 3/8 (594)	1 7/8 (48)
E127	70-0708-1937-3	14 x 25 x 2 (356 x 635 x 51)	13 3/8 (340)	24 3/8 (619)	1 7/8 (48)
E136	70-0708-1946-4	15 x 20 x 2 (381 x 508 x 51)	14 3/8 (365)	19 3/8 (492)	1 7/8 (48)
E128	70-0708-1938-1	16 x 16 x 2 (406 x 406 x 51)	15 3/8 (391)	15 3/8 (391)	1 7/8 (48)
F979	70-0708-1807-8	16 x 20 x 2 (406 x 508 x 51)	15 3/8 (391)	19 3/8 (492)	1 7/8 (48)
E129	70-0708-1939-9	16 x 24 x 2 (406 x 610 x 51)	15 3/8 (391)	23 3/8 (594)	1 7/8 (48)
F980	70-0708-1808-6	16 x 25 x 2 (406 x 635 x 51)	15 3/8 (391)	24 3/8 (619)	1 7/8 (48)
E132	70-0708-1942-3	18 x 20 x 2 (457 x 508 x 51)	17 3/8 (441)	19 3/8 (492)	1 7/8 (48)
F981	70-0708-1890-4	18 x 24 x 2 (457 x 610 x 51)	17 3/8 (441)	23 3/8 (594)	1 7/8 (48)
E130	70-0708-1940-7	18 x 25 x 2 (457 x 635 x 51)	19 3/8 (492)	24 3/8 (619)	1 7/8 (48)
F977	70-0708-1805-2	20 x 20 x 2 (508 x 508 x 51)	19 3/8 (492)	19 3/8 (492)	1 7/8 (48)
E131	70-0708-1941-5	20 x 24 x 2 (508 x 610 x 51)	19 3/8 (492)	23 3/8 (594)	1 7/8 (48)
F982	70-0708-1810-2	20 x 25 x 2 (508 x 635 x 51)	19 3/8 (492)	24 3/8 (619)	1 7/8 (48)
E134	70-0708-1944-9	20 x 30 x 2 (508 x 762 x 51)	19 3/8 (492)	29 3/8 (746)	1 7/8 (48)
F976	70-0708-1804-5	24 x 24 x 2 (610 x 610 x 51)	23 3/8 (594)	23 3/8 (594)	1 7/8 (48)
E135	70-0708-1945-6	25 x 25 x 2 (635 x 635 x 51)	24 3/8 (619)	24 3/8 (619)	1 7/8 (48)

## 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

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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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