

HVAC

VariCel® VXL

Product Overview

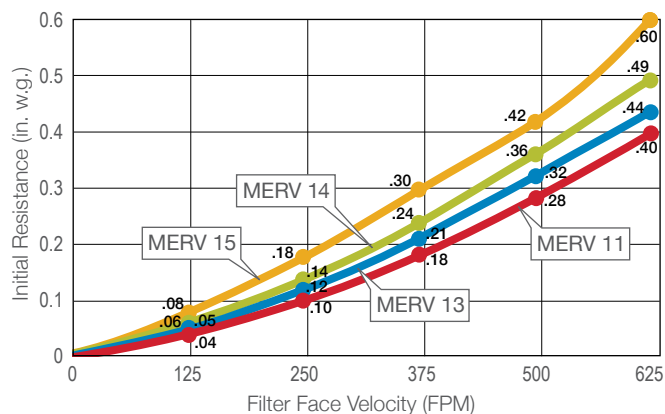
- 60% more media than standard rigid filters for reduced resistance, increased airflow capacity, and longer filter life
- Highest Dust Holding Capacity (DHC) in its class for superior filter life and minimal Total Cost of Ownership (TCO)
- Excellent performance under difficult conditions, including systems operating at air velocities up to 750 FPM
- Lightweight and easy to install
- Models rated MERV 13 and higher meet LEED® Project Certification efficiency requirements
- Fully incinerable, no metal components



Specifications

Efficiency	MERV 15, MERV 14, MERV 13, MERV 11
Filter Depth	12"
Media Type	Dual-Density Microfiberglass
Frame Material	High-Impact Plastic
Separator Style	Thermoplastic Gluebead
Special Size Available	No
Antimicrobial Available	Yes (MERV 14 and higher)
Header Style(s)	Single, Double
Max Operating Temperature	176°F (80°C)
Air Filtration Certification	UL 900

Initial Resistance vs. Filter Face Velocity



Maximum recommended final resistance for all VariCel® VXL filters is 2 in. w.g.

Product Information

Part Number	Nominal Size Inches (W x H x D)	Gross Media Area (Sq. Ft.)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
MERV 15						
3018413-001	24 x 12 x 12	88	1,000	1	9.0	2.2
3018413-002	24 x 20 x 12	161	1,650	1	14.5	3.6
3018413-003	24 x 24 x 12	197	2,000	1	17.0	4.3
3018413-037	20 x 20 x 12	137	1,400	1	11.8	3.3
MERV 14						
3018413-004	24 x 12 x 12	88	1,000	1	9.0	2.0
3018413-005	24 x 20 x 12	161	1,650	1	14.5	3.6
3018413-006	24 x 24 x 12	197	2,000	1	17.0	4.3
3018413-039	20 x 20 x 12	137	1,400	1	11.8	3.3
MERV 13						
3018413-007	24 x 12 x 12	88	1,000	1	9.0	2.2
3018413-008	24 x 20 x 12	161	1,650	1	14.5	3.6
3018413-009	24 x 24 x 12	197	2,000	1	17.0	4.3
3018413-041	20 x 20 x 12	137	1,400	1	11.8	3.3
MERV 11						
3018413-010	24 x 12 x 12	88	1,000	1	9.0	2.2
3018413-011	24 x 20 x 12	161	1,650	1	14.5	3.6
3018413-012	24 x 24 x 12	197	2,000	1	17.0	4.3
3018413-043	20 x 20 x 12	137	1,400	1	11.8	3.3

Also available in a double header construction style and/or with antimicrobial enhanced media.

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VariCel® VXLS

Product Overview

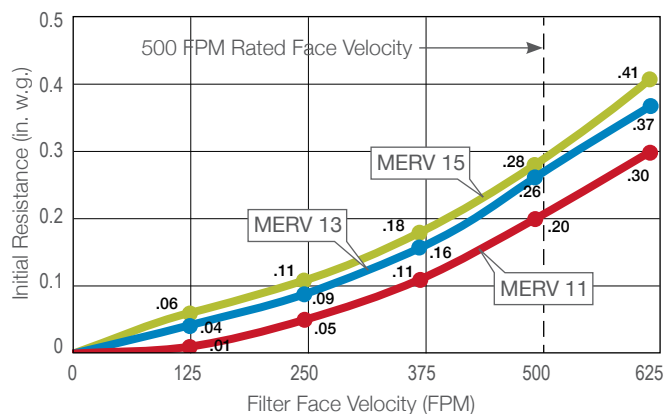
- Delivers superior air quality in difficult operating conditions such as turbulent airflow/repeated fan shut-down, and high humidity
- Gradient-density media for high Dust Holding Capacity (DHC) and longer filter life
- Very low initial resistance provides energy savings
- Fully incinerable, no metal components
- Lightweight and easy to install
- MERV 13 and higher meet LEED® Project Certification efficiency requirements



Specifications

Efficiency	MERV 15, MERV 13, MERV 11
Filter Depth	12"
Media Type	Gradient Density Synthetic
Frame Material	High-Impact Plastic
Separator Style	Gluebead
Special Size Available	No
Antimicrobial Available	No
Header Style(s)	Single
Max Operating Temperature	176°F (80°C)
Air Filtration Certification	UL 900, ULC-S111

Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Nominal Size Inches (W x H x D)	Gross Media Area (Sq. Ft.)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
MERV 15						
3081858-001	24 x 12 x 12	65	1,000	1	8.5	2.4
3081858-002	24 x 20 x 12	120	1,650	1	14.2	3.9
3081858-003	24 x 24 x 12	145	2,000	1	18.0	4.3
3081858-010	20 x 20 x 12	89	1,400	1	11.8	3.0
MERV 13						
3081858-004	24 x 12 x 12	65	1,000	1	8.5	2.4
3081858-005	24 x 20 x 12	120	1,650	1	14.2	3.9
3081858-006	24 x 24 x 12	145	2,000	1	18.0	4.3
3081858-011	20 x 20 x 12	89	1,400	1	11.8	3.0
MERV 11						
3081858-007	24 x 12 x 12	65	1,000	1	8.5	2.4
3081858-008	24 x 20 x 12	120	1,650	1	14.2	3.6
3081858-009	24 x 24 x 12	145	2,000	1	18.0	4.3
3081858-012	20 x 20 x 12	89	1,400	1	11.8	3.0

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SuperFlow® Q

Product Overview

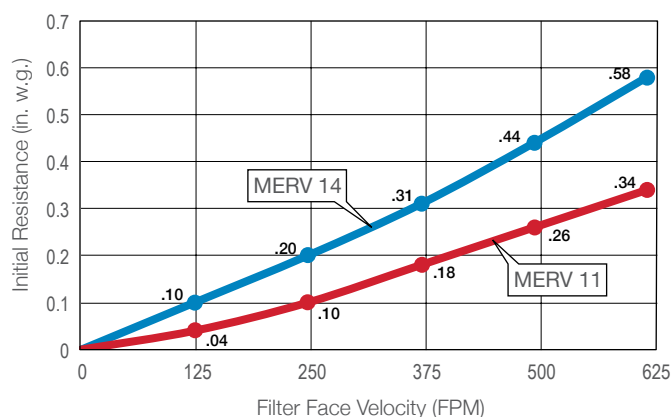
- May be operated from 0 to 500 FPM face velocity in either airflow direction
- Longer service life than standard rigid filters due to higher total media area
- Aerodynamic vertical supports minimize air entry turbulence
- Recommended for systems with Variable Air Volume (VAV) or turbulent airflows due to rigid construction
- Moisture resistant for humid air applications



Specifications

Efficiency	MERV 14, MERV 11
Filter Depth	12"
Media Type	Microfiberglass
Frame Material	Plastic
Separator Style	Gluebead
Special Size Available	No
Antimicrobial Available	No
Header Style(s)	Single
Max Operating Temperature	160°F (71°C)
Air Filtration Certification	UL 900

Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Nominal Size Inches (W x H x D)	Actual Size Inches (W x H x D)	Rated Airflow Capacity (CFM)	Media Area (Sq. Ft.)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box
MERV 14						
F0625307	24 x 24 x 12	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 11 $\frac{1}{2}$	2,000	100	1	17
F0625309	12 x 24 x 12	11 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 11 $\frac{1}{2}$	1,000	45	1	8
F0625308	20 x 24 x 12	19 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 11 $\frac{1}{2}$	1,600	85	1	13
MERV 11						
F0625226	24 x 24 x 12	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 11 $\frac{1}{2}$	2,000	100	1	17
F0625228	12 x 24 x 12	11 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 11 $\frac{1}{2}$	1,000	45	1	8
F0625227	20 x 24 x 12	19 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 11 $\frac{1}{2}$	1,600	85	1	13

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VariCel® 2+HC

Product Overview

- AAF Flanders' Impress® pleating technology for maximized energy efficiency
- Combines high mechanical strength and low resistance for savings on overall operating costs
- Excellent performance under difficult conditions, including variable air volume, turbulent airflow, and high humidity
- Impress® technology maximizes media utilization for increased Dust Holding Capacity (DHC) and longer service life
- High capacity media pack provides lowest possible total cost of ownership with lower resistance and longer filter life
- Lightweight and easy to handle and install
- Slim-line design significantly reduces shipping, storage, and disposal cost
- Models rated MERV 13 and higher meet LEED® Project Certification efficiency requirements

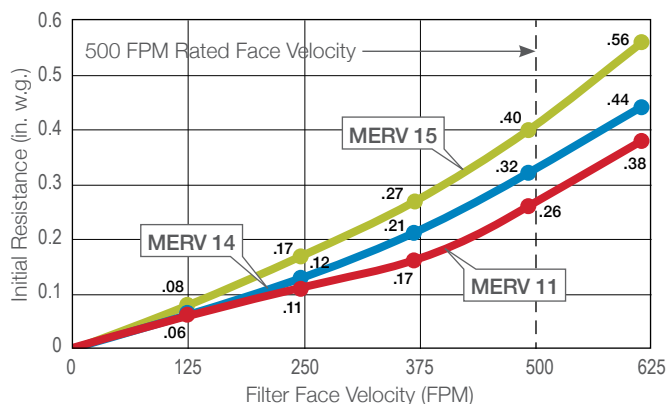


Specifications

Efficiency	MERV 15, MERV 14, MERV 11
Filter Depth	4"
Media Type	Synthetic
Frame Material	Plastic
Separator Style	Embossed
Special Size Available	No
Antimicrobial Available	No
Header Style(s)	Single, Box Style
Max Operating Temperature	150°F (66°C)
Air Filtration Certification	UL 900, ULC-S111



Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Nominal Size Inches (W x H x D)	Actual Size Inches (W x H x D)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
MERV 15 Rated Filter Face Velocity: 500 FPM						
3102040-908	24 x 24 x 4	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	2,000	4	21.0	6.1
3102040-906	20 x 24 x 4	19 $\frac{9}{16}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,650	4	17.5	5.2
3102040-905	20 x 20 x 4	19 $\frac{9}{16}$ x 19 $\frac{9}{16}$ x 3 $\frac{3}{4}$	1,400	4	14.6	4.3
3102040-901	12 x 24 x 4	11 $\frac{1}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,000	4	14.2	3.2
MERV 14 Rated Filter Face Velocity: 500 FPM						
3102040-808	24 x 24 x 4	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	2,000	4	21.0	6.1
3102040-806	20 x 24 x 4	19 $\frac{9}{16}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,650	4	17.5	5.2
3102040-805	20 x 20 x 4	19 $\frac{9}{16}$ x 19 $\frac{9}{16}$ x 3 $\frac{3}{4}$	1,400	4	14.6	4.3
3102040-801	12 x 24 x 4	11 $\frac{1}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,000	4	14.2	3.2
MERV 11 Rated Filter Face Velocity: 500 FPM						
3102040-608	24 x 24 x 4	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	2,000	4	21.0	6.1
3102040-606	20 x 24 x 4	19 $\frac{9}{16}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,650	4	17.5	5.2
3102040-605	20 x 20 x 4	19 $\frac{9}{16}$ x 19 $\frac{9}{16}$ x 3 $\frac{3}{4}$	1,400	4	14.6	4.3
3102040-601	12 x 24 x 4	11 $\frac{1}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,000	4	14.2	3.2

Product information listed above is for box style configuration. This product is also available in single header and reverse flow configurations.

Additional sizes available upon request.

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VariCel® 2+SC

Product Overview

- AAF Flanders' Impress® pleating technology for maximized energy efficiency
- Combines high mechanical strength and low resistance for savings on overall operating costs
- Excellent performance under difficult conditions, including variable air volume, turbulent airflow, and high humidity
- Impress® technology maximizes media utilization for increased Dust Holding Capacity (DHC) and longer service life
- Lightweight and easy to handle and install
- Slim-line design significantly reduces shipping, storage, and disposal costs
- Fully incinerable, no metal components
- Models rated MERV 13 and higher meet LEED® Project Certification efficiency requirements

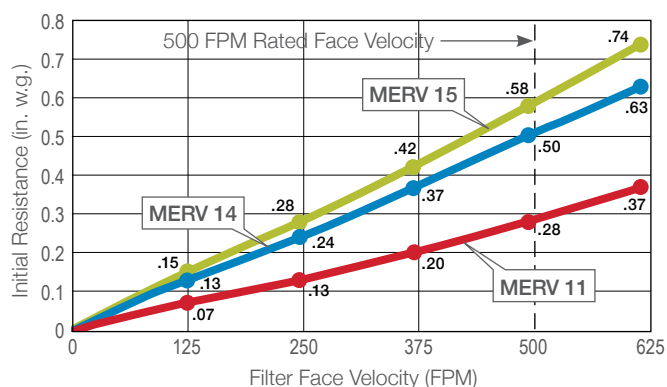


Specifications

Efficiency	MERV 15, MERV 14, MERV 11
Filter Depth	4"
Media Type	Synthetic
Frame Material	Plastic
Separator Style	Embossed
Special Size Available	No
Antimicrobial Available	No
Header Style(s)	Single, Box Style
Max Operating Temperature	150°F (66°C)
Air Filtration Certification	UL 900, ULC-S111



Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Nominal Size Inches (W x H x D)	Actual Size Inches (W x H x D)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
MERV 15 Rated Filter Face Velocity: 500 FPM						
3102036-908	24 x 24 x 4	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	2,000	4	21.0	6.1
3102036-906	20 x 24 x 4	19 $\frac{9}{16}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,650	4	17.5	5.2
3102036-905	20 x 20 x 4	19 $\frac{9}{16}$ x 19 $\frac{9}{16}$ x 3 $\frac{3}{4}$	1,400	4	14.6	4.3
3102036-901	12 x 24 x 4	11 $\frac{1}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,000	4	14.2	3.
MERV 14 Rated Filter Face Velocity: 500 FPM						
3102036-808	24 x 24 x 4	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	2,000	4	21.0	6.1
3102036-806	20 x 24 x 4	19 $\frac{9}{16}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,650	4	17.5	5.2
3102036-805	20 x 20 x 4	19 $\frac{9}{16}$ x 19 $\frac{9}{16}$ x 3 $\frac{3}{4}$	1,400	4	14.6	4.3
3102036-801	12 x 24 x 4	11 $\frac{1}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,000	4	14.2	3.2
MERV 11 Rated Filter Face Velocity: 500 FPM						
3102036-608	24 x 24 x 4	23 $\frac{3}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	2,000	4	21.0	6.1
3102036-606	20 x 24 x 4	19 $\frac{9}{16}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,650	4	17.5	5.2
3102036-605	20 x 20 x 4	19 $\frac{9}{16}$ x 19 $\frac{9}{16}$ x 3 $\frac{3}{4}$	1,400	4	14.6	4.3
3102036-601	12 x 24 x 4	11 $\frac{1}{8}$ x 23 $\frac{3}{8}$ x 3 $\frac{3}{4}$	1,000	4	14.2	3.2

Product information listed above is for box style configuration. This product is also available in single header and reverse flow configurations.

Additional sizes available upon request.

VariCel® is a registered trademark of AAF International in the U.S. and other countries.

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VariCel® M-Pak

Product Overview

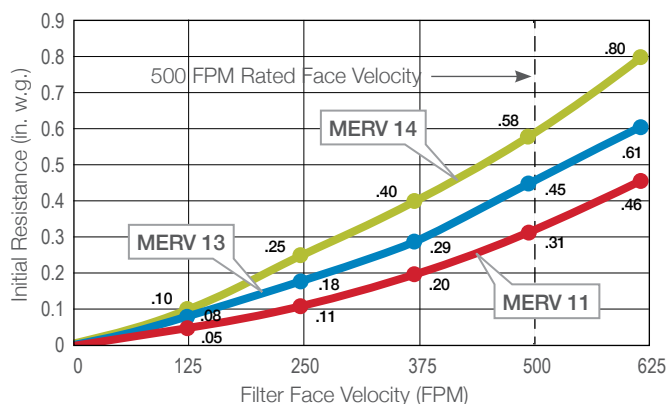
- Delivers comparable efficiency, pressure drop, and overall performance in half the footprint as standard 12" deep box style filters
- Space-saving and lightweight 6" deep design reduces freight, storage and handling costs, and is easier to install
- Sturdy high-impact polystyrene (HIPS) cell sides resist damage during shipping, handling, and operation
- Dual-density media for increased Dust Holding Capacity (DHC) and extended filter life
- Fully incinerable, no metal components
- MERV 14 and 11 models available with antimicrobial
- Models rated MERV 13 and higher meet LEED® Project Certification efficiency requirements



Specifications

Efficiency	MERV 14, MERV 13, MERV 11
Filter Depth	6"
Media Type	Dual-Density Microfiberglass
Frame Material	High-Impact Plastic
Separator Style	Thermoplastic Gluebead
Special Size Available	No
Antimicrobial Available	Yes
Header Style(s)	Single
Max Operating Temperature	176°F (80°C)
Air Filtration Certification	UL 900, ULC-S111

Initial Resistance vs. Filter Face Velocity



Filters are rated at 500 FPM filter face velocity. Recommended final resistance for all VariCel® M-Pak filters is 1.5" w.g.

Product Information

Part Number	Nominal Size Inches (W x H x D)	Gross Media Area (Sq. Ft.)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
MERV 14 Rated Filter Face Velocity: 500 FPM						
3014883-008	24 x 24 x 6	125	2,000	2	19.0	4.4
3014883-006	20 x 24 x 6	103	1,660	2	16.5	3.7
3014883-005	20 x 20 x 6	84	1,400	2	14.0	3.1
3014883-001	12 x 24 x 6	57	1,000	2	11.5	2.2
MERV 13 Rated Filter Face Velocity: 500 FPM						
3014883-016	24 x 24 x 6	105	2,000	2	18.0	4.4
3014883-014	20 x 24 x 6	86	1,660	2	15.5	3.7
3014883-013	20 x 20 x 6	70	1,400	2	13.0	3.1
3014883-009	12 x 24 x 6	47	1,000	2	10.5	2.2
MERV 11 Rated Filter Face Velocity: 500 FPM						
3014883-024	24 x 24 x 6	105	2,000	2	18.0	4.4
3014883-022	20 x 24 x 6	86	1,660	2	15.5	3.1
3014883-021	20 x 20 x 6	70	1,400	2	13.0	3.1
3014883-017	12 x 24 x 6	47	1,000	2	10.5	2.2

Additional sizes, reverse flow configuration, and antimicrobial enhanced media available upon request.

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VariCel® II

Product Overview

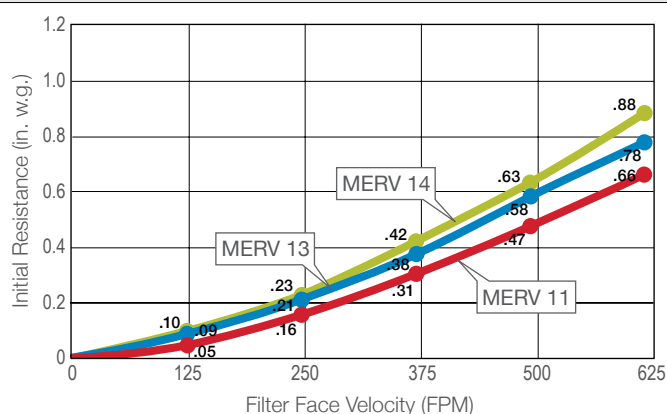
- High efficiency filtration and long filter life with a lightweight, durable space-saving design
- Double-wall, die-cut frame adds strength and prevents dirty air bypass
- Dual-density microglass media with consistent pleat spacing for complete media utilization
- Slim-line, mini-pleat construction lowers shipping, storage, handling, and disposal costs (as much as 3 times over conventional 12" deep filters)
- Available with antimicrobial (MERV 14 efficiency)
- Fully incinerable, no metal components
- Models rated MERV 13 and higher meet LEED® Project Certification efficiency requirements



Specifications

Efficiency	MERV 14, MERV 13, MERV 11
Filter Depth	4"
Media Type	Dual-Density Microfiberglass
Frame Material	Beverage Board
Separator Style	Thermoplastic Gluebead
Special Size Available	No
Antimicrobial Available	Yes
Header Style(s)	Box Style
Max Operating Temperature	150°F (66°C)
Air Filtration Certification	UL 900, ULC-S111

Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Nominal Size Inches (W x H x D)	Gross Media Area (Sq. Ft.)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
MERV 14 Rated Filter Face Velocity: 500 FPM						
332-528-008	24 x 24 x 4	119	2,000	4	26.0	6.4
332-528-006	20 x 24 x 4	99	1,650	4	21.0	6.4
332-528-005	20 x 20 x 4	82	1,400	4	18.0	4.6
332-528-001	12 x 24 x 4	58	1,000	4	13.0	3.2
MERV 13 Rated Filter Face Velocity: 500 FPM						
332-510-008	24 x 24 x 4	119	2,000	4	26.0	6.4
332-510-006	20 x 24 x 4	99	1,650	4	21.0	6.4
332-510-005	20 x 20 x 4	82	1,400	4	18.0	16.0
332-510-001	12 x 24 x 4	58	1,000	4	13.0	3.2
MERV 11 Rated Filter Face Velocity: 500 FPM						
332-502-008	24 x 24 x 4	119	2,000	4	26.0	6.4
332-502-006	20 x 24 x 4	99	1,650	4	21.0	6.4
332-502-005	20 x 20 x 4	82	1,400	4	18.0	4.6
332-502-001	12 x 24 x 4	58	1,000	4	13.0	3.2

Additional sizes available upon request.

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VariCel® II MH

Product Overview

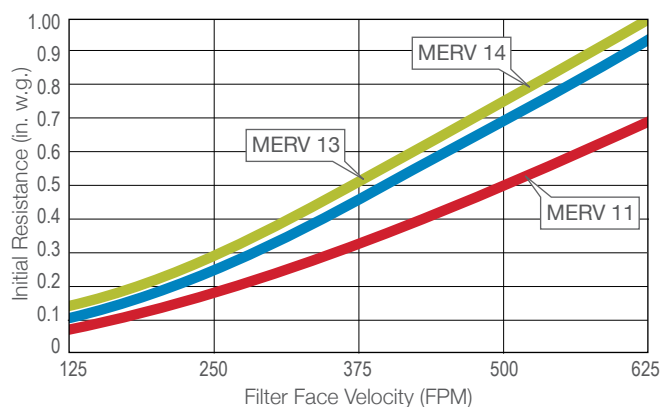
- Rugged metal construction provides excellent performance under difficult operating conditions
- Header allows for easy fit in side access systems and direct replacement of 12" or 6" deep headered filters
- Highly moisture resistant
- Slim-line, mini-pleat construction lowers shipping, storage, handling, and disposal costs (as much as 3 times over conventional 12" deep filters)
- Dual-density microglass media with consistent pleat spacing for complete media utilization
- Available with antimicrobial (MERV 14 efficiency)
- High efficiency filtration and long filter life with a lightweight, durable, space-saving design
- Models rated MERV 13 and higher meet LEED® Project Certification efficiency requirements



Specifications

Efficiency	MERV 14, MERV 13, MERV 11
Filter Depth	4"
Media Type	Dual-Density Microfiberglass
Frame Material	Metal
Separator Style	Thermoplastic Gluebead
Special Size Available	No
Antimicrobial Available	Yes
Header Style(s)	Single
Max Operating Temperature	150°F (66°C)
Air Filtration Certification	UL 900, ULC-S111

Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Nominal Size Inches (W x H x D)	Actual Size Inches (W x H x D)	Gross Media Area (Sq. Ft.)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. Per Box	Cubic Ft.
MERV 14							
335-080-200	24 x 24 x 4	23 $\frac{3}{4}$ x 23 $\frac{3}{4}$ x 4 $\frac{1}{4}$	111	2,000	2	19.6	6.4
335-060-200	20 x 24 x 4	19 $\frac{3}{4}$ x 23 $\frac{3}{4}$ x 4 $\frac{1}{4}$	91	1,650	2	17.6	5.3
335-050-200	20 x 20 x 4	19 $\frac{3}{4}$ x 19 $\frac{3}{4}$ x 4 $\frac{1}{4}$	75	1,400	2	15.8	4.4
335-010-200	12 x 24 x 4	11 $\frac{1}{2}$ x 23 $\frac{3}{4}$ x 4 $\frac{1}{4}$	50	1,000	2	13.5	3.2
MERV 13							
335-080-100	24 x 24 x 4	23 $\frac{3}{4}$ x 23 $\frac{3}{4}$ x 4 $\frac{1}{4}$	111	2,000	2	19.6	6.4
335-060-100	20 x 24 x 4	19 $\frac{3}{4}$ x 23 $\frac{3}{4}$ x 4 $\frac{1}{4}$	91	1,650	2	17.6	5.3
335-050-100	20 x 20 x 4	19 $\frac{3}{4}$ x 19 $\frac{3}{4}$ x 4 $\frac{1}{4}$	75	1,400	2	15.8	4.4
335-010-100	12 x 24 x 4	11 $\frac{1}{2}$ x 23 $\frac{3}{4}$ x 4 $\frac{1}{4}$	50	1,000	2	13.5	3.2
MERV 11							
335-080-000	24 x 24 x 4	23 $\frac{3}{4}$ x 23 $\frac{3}{4}$ x 4 $\frac{1}{4}$	111	2,000	2	19.6	6.4
335-060-000	20 x 24 x 4	19 $\frac{3}{4}$ x 23 $\frac{3}{4}$ x 4 $\frac{1}{4}$	91	1,650	2	17.6	5.3
335-050-000	20 x 20 x 4	19 $\frac{3}{4}$ x 19 $\frac{3}{4}$ x 4 $\frac{1}{4}$	75	1,400	2	15.8	4.4
335-010-000	12 x 24 x 4	11 $\frac{1}{2}$ x 23 $\frac{3}{4}$ x 4 $\frac{1}{4}$	50	1,000	2	13.5	3.2

Additional sizes and antimicrobial enhanced media available upon request.

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VariCel®

Product Overview

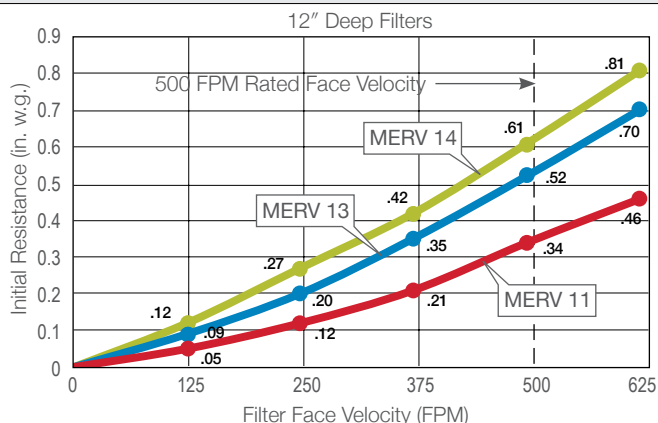
- Dual-density media increases filter life and reduces operating costs
- Open header design prevents dirty air bypass and makes handling safe and easy
- Designed to perform in the most difficult operating conditions, such as variable air volume, turbulent airflows, and repeated fan shutdown
- Rated for continuous operation at temperatures up to 350°F
- Available with antimicrobial (MERV 14 efficiency)
- Models rated MERV 13 and higher meet LEED® Project Certification efficiency requirements



Specifications

Efficiency	MERV 14, MERV 13, MERV 11
Filter Depth	6", 12"
Media Type	Dual-Density Microfiberglass
Frame Material	Galvanized Steel
Separator Style	Corrugated Aluminum
Special Size Available	No
Antimicrobial Available	Yes
Header Style(s)	Single, Double
Max Operating Temperature	350°F (177°C)
Air Filtration Certification	UL 900, ULC-S111

Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Nominal Size Inches (W x H x D)	Gross Media Area (Sq. Ft.)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
Header Style(s) Standard Sizes This product is also available in double header and reverse flow configurations.						
MERV 14 Rated Filter Face Velocity: 500 FPM						
331-946-148	24 x 24 x 12	125	2,000	1	19.0	4.7
331-946-189	20 x 24 x 12	103	1,650	1	16.5	3.6
331-946-136	20 x 20 x 12	84	1,400	1	14.0	3.0
331-946-150	12 x 24 x 12	57	1,000	1	11.5	2.2
MERV 14 Rated Filter Face Velocity: 250 FPM						
331-946-147	24 x 24 x 6	60	1,000	2	21.0	4.7
331-946-188	20 x 24 x 6	49	825	2	18.5	4.0
331-946-135	20 x 20 x 6	40	700	2	16.5	3.3
331-946-149	12 x 24 x 6	27	500	2	13.5	2.4
MERV 13 Rated Filter Face Velocity: 500 FPM						
331-765-148	24 x 24 x 12	105	2,000	1	18.0	4.3
331-765-189	20 x 24 x 12	86	1,650	1	15.5	3.6
331-765-136	20 x 20 x 12	70	1,400	1	13.0	3.0
331-765-150	12 x 24 x 12	47	1,000	1	10.5	2.2
MERV 13 Rated Filter Face Velocity: 250 FPM						
331-765-147	24 x 24 x 6	50	1,000	2	19.5	4.7
331-765-188	20 x 24 x 6	41	825	2	17.0	4.0
331-765-135	20 x 20 x 6	33	700	2	15.0	3.3
331-765-149	12 x 24 x 6	22	500	2	12.0	2.4
MERV 11 Rated Filter Face Velocity: 500 FPM						
331-953-148	24 x 24 x 12	105	2,000	1	18.0	4.3
331-953-189	20 x 24 x 12	86	1,650	1	15.5	3.6
331-953-136	20 x 20 x 12	70	1,400	1	13.0	3.0
331-953-150	12 x 24 x 12	47	1,000	1	10.5	2.2
MERV 11 Rated Filter Face Velocity: 250 FPM						
331-953-147	24 x 24 x 6	50	1,000	2	19.5	4.7
331-953-188	20 x 24 x 6	41	825	2	17.0	4.0
331-953-135	20 x 20 x 6	33	700	2	15.0	3.3
331-953-149	12 x 24 x 6	22	500	2	12.0	2.4

Additional sizes available upon request. Available options upon request include: antimicrobial enhanced media, gasketing, and/or faceguards (upstream, downstream, or both sides).

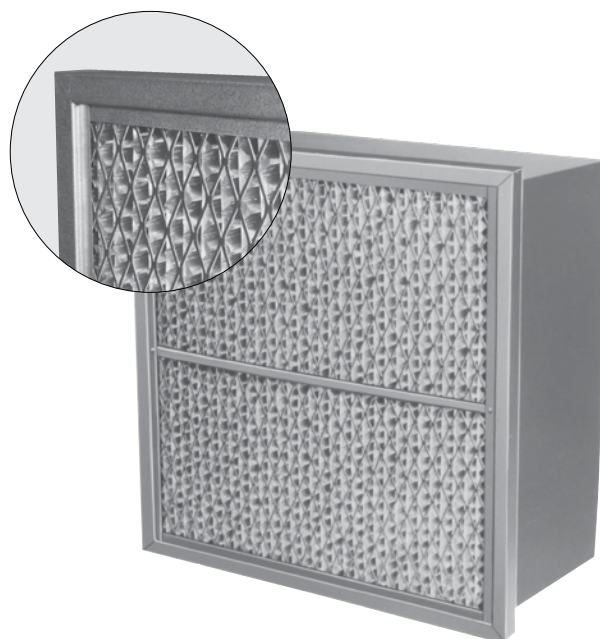
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HVAC

VariCel® HT

Product Overview

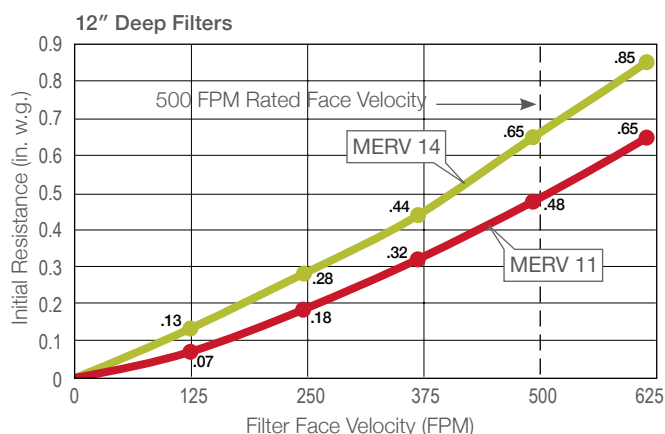
- Designed for continuous operating temperatures as high as 900°
- Aluminized steel frame with aluminized steel faceguards and bar braces on both sides for superior strength, along with heat and corrosion resistance
- Dual-density media increases filter life and reduces operating costs
- Can also be used at lower temperatures to extend service life
- MERV 14 meets LEED® Project Certification efficiency requirements
- UL Classified



Specifications

Efficiency	MERV 14, MERV 11
Filter Depth	12"
Media Type	Dual-Density Microfiberglass
Frame Material	Aluminized Steel
Separator Style	Corrugated Aluminum
Special Size Available	No
Antimicrobial Available	Yes
Header Style(s)	Single
Max Operating Temperature	500°F (260°C), 725°F (385°C), 900°F (482°C)
Air Filtration Certification	UL 900, ULC-S111

Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Nominal Size Inches (W x H x D)	Actual Size Inches (W x H x D)	Gross Media Area (Sq. Ft.)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box	Cubic Ft.
Single Header Standard Sizes							
500°F (Type HT-500) MERV 14							
331-082-001	24 x 24 x 12	23 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	125	2,000	1	19.0	4.3
331-082-002	12 x 24 x 12	11 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	57	1,000	1	11.5	2.2
500°F (Type HT-500) MERV 11							
331-108-001	24 x 24 x 12	23 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	105	2,000	1	14.0	4.3
331-108-002	12 x 24 x 12	11 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	47	1,000	1	11.0	2.2
725°F (Type HT-725) MERV 14							
331-041-001	24 x 24 x 12	23 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	140	2,000	1	20.0	4.3
331-041-002	12 x 24 x 12	11 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	62	1,000	1	12.0	2.2
725°F (Type HT-725) MERV 11							
331-066-001	24 x 24 x 12	23 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	140	2,000	1	20.0	4.3
331-066-002	12 x 24 x 12	11 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	62	1,000	1	12.0	2.2
900°F (Type HT-900) MERV 14							
331-828-005	24 x 24 x 12	23 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	175	2,000	1	21.3	4.3
331-828-006	12 x 24 x 12	11 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	79	1,000	1	13.1	2.2
900°F (Type HT-900) MERV 11							
331-828-001	24 x 24 x 12	23 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	175	2,000	1	21.3	4.3
331-828-002	12 x 24 x 12	11 ³ / ₁₆ x 23 ³ / ₁₆ x 11 ¹ / ₂	79	1,000	1	13.1	2.4

Also available in double header configuration, and with glass fiber (high temp.) gasketing upon request.

HVAC

VariCel® RF

Product Overview

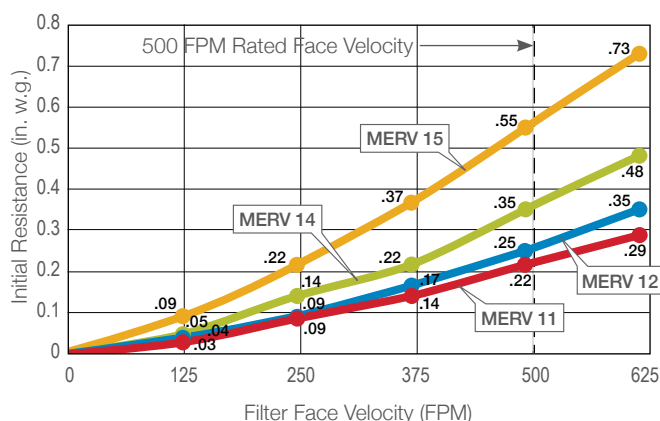
- Designed for excellent performance and durability
 - Open header design prevents dirty air bypass and provides a handhold for safe and easy installation
 - Meltblown, synthetic media will not shed, is water resistant, and is more resistant to handling damage than fiberglass
 - Layered media captures both large and small particles for complete utilization
 - Media pack is supported by plastic pleat spacers and expanded metal backing
 - Recommended for applications with Variable Air Volume (VAV) and repeated fan shutdowns
- Models rated MERV 13 and higher meet LEED® Project Certification efficiency requirements



Specifications

Efficiency	MERV 15, MERV 14, MERV 12, MERV 11
Filter Depth	12"
Media Type	Meltblown Synthetic
Frame Material	Galvanized Steel
Separator Style	Plastic
Special Size Available	No
Antimicrobial Available	No
Header Style(s)	Single, Double
Max Operating Temperature	200°F (93°C)
Air Filtration Certification	UL 900, ULC-S111

Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Nominal Size Inches (W x H x D)	Gross Media Area (Sq. Ft.)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
MERV 15 Rated Filter Face Velocity: 500 FPM						
3011079-001	24 x 24 x 12	62	2,000	1	24.0	4.3
3011079-002	24 x 20 x 12	52	1,660	1	21.0	3.6
3011079-003	20 x 20 x 12	41	1,400	1	18.0	3.0
3011079-004	24 x 12 x 12	31	1,000	1	13.0	3.6
MERV 14 Rated Filter Face Velocity: 500 FPM						
3011079-005	24 x 24 x 12	62	2,000	1	24.0	4.3
3011079-006	24 x 20 x 12	52	1,660	1	21.0	3.6
3011079-007	20 x 20 x 12	41	1,400	1	18.0	3.0
3011079-008	24 x 12 x 12	31	1,000	1	13.0	2.2
MERV 12 Rated Filter Face Velocity: 500 FPM						
3011079-009	24 x 24 x 12	62	2,000	1	24.0	3.6
3011079-010	24 x 20 x 12	52	1,660	1	21.0	3.6
3011079-011	20 x 20 x 12	41	1,400	1	18.0	3.0
3011079-012	24 x 12 x 12	31	1,000	1	13.0	3.6
MERV 11 Rated Filter Face Velocity: 500 FPM						
3011079-013	24 x 24 x 12	62	2,000	1	24.0	4.3
3011079-014	24 x 20 x 12	52	1,660	1	21.0	3.6
3011079-015	20 x 20 x 12	41	1,400	1	18.0	3.0
3011079-016	24 x 12 x 12	31	1,000	1	13.0	2.2

Additional sizes available upon request. Product information above is for single header configuration with standard airflow; double header and reverse flow styles also available.

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BioCel® VXL

Product Overview

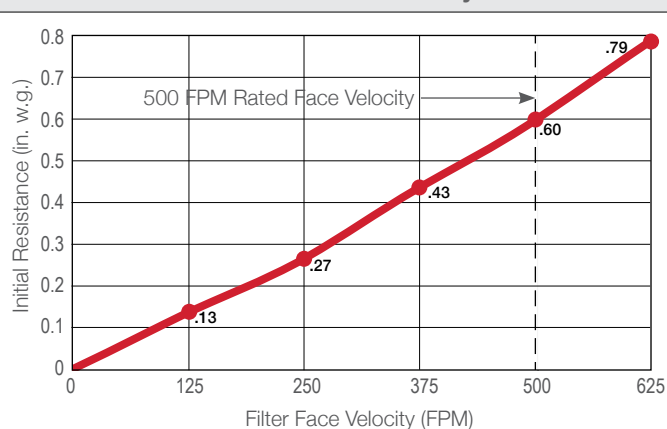
- Near HEPA filtration efficiency at a much lower pressure drop than traditional HEPA filters or 95% DOP filters
- Engineered to meet the exacting requirements of critical applications
- Sturdy, high-impact plastic cell sides resist damage during shipping, handling, and operation
- Weighs significantly less than traditional box style HEPA or ASHRAE filters, saving time and money during installation and removal
- Low initial pressure drop (.60 in w.g. @ 500 FPM) and high media area for extremely long filter life and low total cost of ownership
- Can upgrade efficiency of existing box style filters without requiring special frames or latches
- Fully incinerable, no metal components



Specifications

Efficiency	MERV 16
Filter Depth	12"
Media Type	Microfiberglass
Frame Material	High-Impact Plastic
Separator Style	Thermoplastic Gluebead
Special Size Available	No
Antimicrobial Available	Yes
Header Style(s)	Single, Double
Max Operating Temperature	176°F (80°C)
Air Filtration Certification	UL 900

Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Nominal Size Inches (W x H x D)	Gross Media Area (Sq. Ft.)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
Single Header MERV 16 Standard Sizes						
No Gaskets						
3027026-001	24 x 12 x 12	88	1,000	1	9.0	2.0
3027026-002	24 x 20 x 12	161	1,650	1	14.5	3.6
3027026-003	24 x 24 x 12	197	2,000	1	17.0	4.0
Gasketing on the Air Leaving Side						
3027026-007	24 x 12 x 12	88	1,000	1	9.0	2.2
3027026-008	24 x 20 x 12	161	1,650	1	14.5	3.6
3027026-009	24 x 24 x 12	197	2,000	1	17.0	4.3
Double Header MERV 16 Standard Sizes						
No Gaskets						
3027026-004	24 x 12 x 12	88	1,000	1	9.0	2.2
3027026-005	24 x 20 x 12	161	1,650	1	14.5	3.6
3027026-006	24 x 24 x 12	197	2,000	1	17.0	4.3
Gasketing on the Air Leaving Side						
3027026-010	24 x 12 x 12	88	1,000	1	9.0	2.4
3027026-011	24 x 20 x 12	161	1,650	1	14.5	3.6
3027026-012	24 x 24 x 12	197	2,000	1	17.0	4.3

Antimicrobial also available upon request.

HVAC

BioCel® M-Pak

Product Overview

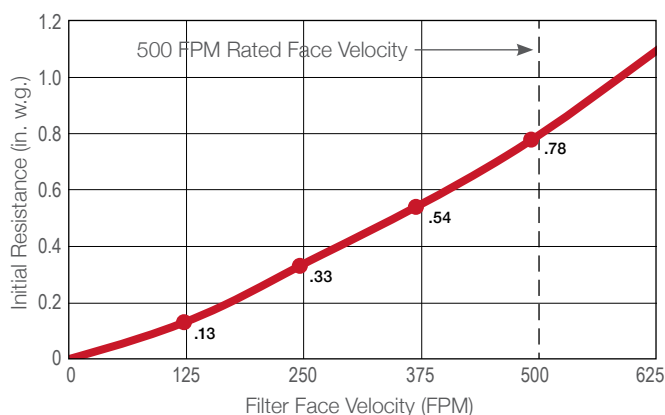
- Near HEPA (MERV 16) efficiency—upgrade efficiency of existing box style filters without requiring special frames or latches
- Space-saving and lightweight 6" deep design reduces freight, storage, and handling costs, and is easier to install than traditional box style HEPA or ASHRAE filters
- Engineered to meet the exacting requirements of critical applications
- Sturdy, high-impact plastic cell sides resist damage during shipping, handling, and operation
- Fully incinerable, no metal components



Specifications

Efficiency	MERV 16
Filter Depth	6"
Media Type	Microfiberglass
Frame Material	High-Impact Plastic
Separator Style	Thermoplastic Gluebead
Special Size Available	No
Antimicrobial Available	No
Header Style(s)	Single
Max Operating Temperature	176°F (80°C)
Air Filtration Certification	UL 900

Initial Resistance vs. Filter Face Velocity



Filters are rated at 500 FPM filter face velocity. Recommended final resistance for all BioCel® M-Pak filters is 2" w.g.

Product Information

Part Number	Nominal Size Inches (W x H x D)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
Single Header MERV 16 Standard Sizes					
Rated Filter Face Velocity: 500 FPM					
3016953-007	24 x 24 x 6	2,000	2	20.0	4.4
3016953-006	20 x 25 x 6	1,750	2	18.2	3.9
3016953-005	20 x 24 x 6	1,650	2	17.5	3.7
3016953-004	20 x 20 x 6	1,400	2	15.0	3.1
3016953-003	16 x 25 x 6	1,400	2	15.0	3.1
3016953-002	16 x 20 x 6	1,100	2	13.0	1.4
3016953-001	12 x 24 x 6	1,000	2	12.0	2.2

HVAC

BioCel® I

Product Overview

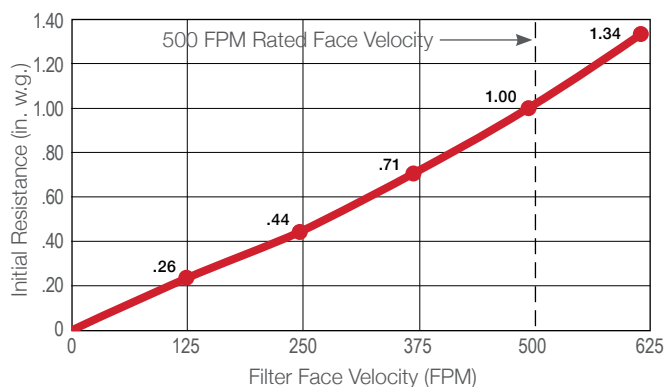
- Near HEPA (MERV 16) efficiency—upgrade efficiency of existing box style filters without requiring special frames or latches
- Open header design prevents dirty air bypass and makes handling safe and easy
- Designed to perform in the most difficult operating conditions, such as variable air volume, turbulent airflows, and repeated fan shutdown
- Rated for continuous operation at temperatures up to 350°F
- Recommended for use in high humidity or seacoast applications
- Rigid, all-metal construction and water-resistant media



Specifications

Efficiency	MERV 16
Filter Depth	6", 12"
Media Type	Microfiberglass
Frame Material	Galvanized Steel
Separator Style	Corrugated Aluminum
Special Size Available	Yes
Antimicrobial Available	No
Header Style(s)	Single, Double
Max Operating Temperature	350°F (177°C)
Air Filtration Certification	UL 900

Initial Resistance vs. Filter Face Velocity



Product Information

Part Number	Drawing Number	Nominal Size Inches (W x H x D)	Rated Airflow Capacity (CFM)	Std. Pkg. Qty. Per Carton	Shipping Wt. Lbs. per Box (± 7%)	Cubic Ft.
Single Header MERV 16 Standard Sizes						
Rated Filter Face Velocity: 500 FPM						
510-532-014	105-1357532-14	24 x 24 x 12	2,000	1	20.0	4.3
510-532-012	105-1357532-12	24 x 20 x 12	1,650	1	17.0	3.6
510-532-016	105-1357532-16	12 x 24 x 12	1,000	1	12.0	2.2
Rated Filter Face Velocity: 250 FPM						
510-532-013	105-1357532-13	24 x 24 x 6	1,000	2	22.0	4.7
510-532-011	105-1357532-11	24 x 20 x 6	825	2	19.5	2.0
510-532-015	105-1357532-15	12 x 24 x 6	500	2	14.0	2.4
Double Header MERV 16 Standard Sizes						
Rated Filter Face Velocity: 500 FPM						
511-631-001	105-1357631-1	24 x 24 x 12	2,000	1	21.5	4.3
511-631-007	105-1357631-7	24 x 24 x 12 ¹	2,000	1	21.5	4.3
511-631-003	105-1357631-3	20 x 24 x 12	1,650	1	18.5	3.6
511-631-002	105-1357631-2	12 x 24 x 12	1,000	1	13.0	2.2
Rated Filter Face Velocity: 250 FPM						
511-631-004	105-1357631-4	24 x 24 x 6	1,000	2	24.0	4.7
511-631-008	105-1357631-8	24 x 24 x 6 ¹	1,000	2	24.0	4.7
511-631-006	105-1357631-6	20 x 24 x 6	825	2	21.5	2.0
511-631-005	105-1357631-5	12 x 24 x 6	500	2	15.5	2.4

¹Actual face dimensions are 24" x 24". Additional sizes available upon request.
Additional options upon request include: AstroCel® I (HEPA-style) construction, gasketing, and/or faceguards (upstream, downstream, or both sides).

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