



Z-LINE® SERIES MR-8 / MR-11

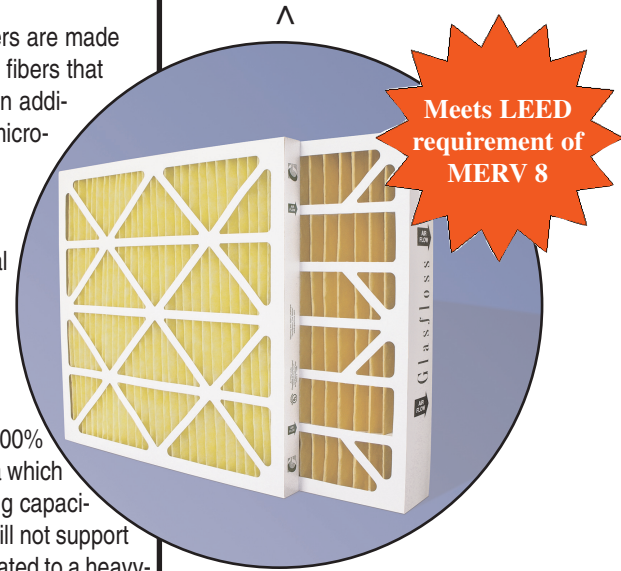
Environmentally Friendly!

FEATURES

The Glasfloss Z-Line MR-8 and MR-11 Series pleated air filters are made with 100% recyclable components and utilize 100% synthetic fibers that offer higher filtration efficiency with low initial pressure drop. In addition, the synthetic fibers will not absorb moisture or support microbial growth. The MR-8 achieves a MERV 8 and the MR-11 achieves a MERV 11 per the ANSI/ASHRAE Test Standard 52.2. As a pre-filter, the MR-8 and the MR-11 will extend the service life of the primary filter due to high particulate removal efficiency. The MR-8 and the MR-11 are available in most standard and special face dimensions in 1", 2", 4" and 6" depths.

CONSTRUCTION

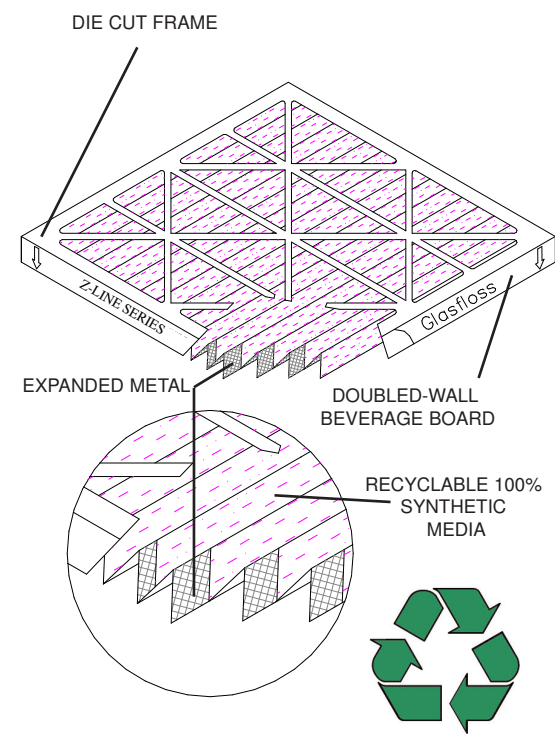
Glasfloss Z-Line MR-8 and MR-11 Series are made with 100% recyclable components and incorporate 100% synthetic media which is engineered in a gradient structure for maximum dust holding capacity. The thermally bonded fibers do not absorb moisture and will not support microbial growth. The Z-Line MR-8 and MR-11 media is laminated to a heavy-duty, galvanized metal backing that stabilizes the media during operation. The pleats are formed in a radial configuration to ensure proper dust loading. The pleated media pack is adhered to the peripheral interior of a heavy-duty, beverage board, die-cut frame to prevent air bypass. The beverage board frame creates a double-wall thickness around the perimeter of the filter.



- MERV 8 or MERV 11
- Made with Recyclable Materials
- Heavy-duty, Moisture Resistant Construction
- Standard Size 4" and 6" Incorporates Media Separators

SPECIFICATIONS

The Glasfloss Z-Line MR-8 and MR-11 Series filters shall be the extended surface pleated media type made from 100% recyclable components. The 100% synthetic fibers are thermally bonded and manufactured in an engineered gradient structure. An expanded metal reinforcement shall be laminated to the air leaving side of the media by a thermo-setting adhesive to maintain continuity of the radial pleats. The expanded metal shall be galvanized to resist rust and corrosion. The media shall be pleated in a tapered radial configuration. The pleated cartridge shall be bonded to the peripheral interior of the outer frame. A heavy-duty, moisture resistant beverage board shall be utilized for an encasing frame. The frame shall be internally laminated to the pleated cartridge apexes. Z-Line MR-8 and MR-11 Series filters shall be rated Class 2 under U.L. std. 900 and shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The Z-Line MR-8 shall be rated MERV 8 and the MR-11 shall be rated MERV 11 when tested in accordance with ANSI/ASHRAE Test Standard 52.2



"Serving You With Locations Throughout The Nation"

Glasfloss has a policy of uninterrupted research, development and product improvement and reserves the right to change design and specifications without notice.

MR-8 SC, HC & MR-11 STANDARD SIZE FILTERS

SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.			MEDIA SQUARE FEET			SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS		
			SC	HC	11	SC	HC	11			SC	HC	11
10 x 10 x 1	9-1/2 x 9-1/2 x 7/8	300	.21	.18	.24	1.48	1.61	1.61	254 x 254 x 26	5490	52.2	44.8	59.7
10 x 20 x 1	9-1/2 x 19-1/2 x 7/8	300	.21	.18	.24	2.47	2.67	2.67	254 x 508 x 26	5490	52.2	44.8	59.7
10 x 24 x 1	9-1/2 x 23-1/2 x 7/8	300	.21	.18	.24	2.97	3.22	3.22	254 x 610 x 26	5490	52.2	44.8	59.7
10 x 30 x 1	9-5/8 x 29-5/8 x 7/8	300	.21	.18	.24	4.33	4.95	4.95	254 x 762 x 26	5490	52.2	44.8	59.7
12 x 12 x 1	11-1/2 x 11 1/2 x 7/8	300	.21	.18	.24	1.80	2.06	2.06	305 x 305 x 26	5490	52.2	44.8	59.7
12 x 20 x 1	11-1/2 x 19-1/2 x 7/8	300	.21	.18	.24	2.88	3.29	3.29	305 x 508 x 26	5490	52.2	44.8	59.7
12 x 24 x 1	11-3/8 x 23-3/8 x 7/8	300	.21	.18	.24	3.46	3.96	3.96	305 x 610 x 26	5490	52.2	44.8	59.7
12 x 30 x 1	11-5/8 x 29-1/2 x 7/8	300	.21	.18	.24	4.51	5.16	5.16	305 x 762 x 26	5490	52.2	44.8	59.7
14 x 14 x 1	13-1/2 x 13-1/2 x 7/8	300	.21	.18	.24	2.62	3.12	3.12	356 x 356 x 26	5490	52.2	44.8	59.7
14 x 20 x 1	13-1/2 x 19-1/2 x 7/8	300	.21	.18	.24	3.29	3.91	3.91	356 x 508 x 26	5490	52.2	44.8	59.7
14 x 24 x 1	13 1/2 x 23 1/2 x 7/8	300	.21	.18	.24	3.96	4.70	4.70	356 x 610 x 26	5490	52.2	44.8	59.7
14 x 25 x 1	13-1/2 x 24-1/2 x 7/8	300	.21	.18	.24	4.13	4.90	4.90	356 x 635 x 26	5490	52.2	44.8	59.7
14 x 30 x 1	13 5/8 x 29 5/8 x 7/8	300	.21	.18	.24	5.74	6.56	6.56	356 x 762 x 26	5490	52.2	44.8	59.7
15 x 20 x 1	14-1/2 x 19-1/2 x 7/8	300	.21	.18	.24	3.70	4.11	4.11	381 x 508 x 26	5490	52.2	44.8	59.7
15 x 30 5/8 x 1	14-5/8 x 30-1/4 x 7/8	300	.21	.18	.24	9.28	10.57	10.57	381 x 777 x 26	5490	52.2	44.8	59.7
16 x 16 x 1	15-1/2 x 15-1/2 x 7/8	300	.21	.18	.24	3.12	3.45	3.45	406 x 406 x 26	5490	52.2	44.8	59.7
16 x 20 x 1	15-1/2 x 19-1/2 x 7/8	300	.21	.18	.24	3.91	4.32	4.32	406 x 508 x 26	5490	52.2	44.8	59.7
16 x 24 x 1	15-1/2 x 23-1/2 x 7/8	300	.21	.18	.24	4.70	5.20	5.20	406 x 610 x 26	5490	52.2	44.8	59.7
16 x 25 x 1	15-1/2 x 24-1/2 x 7/8	300	.21	.18	.24	4.90	5.41	5.41	406 x 635 x 26	5490	52.2	44.8	59.7
16 x 30 x 1	15-5/8 x 29-5/8 x 7/8	300	.21	.18	.24	5.83	6.67	6.67	406 x 762 x 26	5490	52.2	44.8	59.7
18 x 18 x 1	17-1/2 x 17-1/2 x 7/8	300	.21	.18	.24	4.32	4.94	4.94	457 x 457 x 26	5490	52.2	44.8	59.7
18 x 20 x 1	17-1/2 x 19-1/2 x 7/8	300	.21	.18	.24	4.32	4.94	4.94	457 x 508 x 26	5490	52.2	44.8	59.7
18 x 24 x 1	17-1/2 x 23-1/2 x 7/8	300	.21	.18	.24	5.20	5.94	5.94	457 x 610 x 26	5490	52.2	44.8	59.7
18 x 25 x 1	17-1/2 x 24-1/2 x 7/8	300	.21	.18	.24	5.41	6.19	6.19	457 x 635 x 26	5490	52.2	44.8	59.7
18 x 30 x 1	17-5/8 x 29-5/8 x 7/8	300	.21	.18	.24	7.20	8.23	8.23	457 x 762 x 26	5490	52.2	44.8	59.7
20 x 20 x 1	19-1/2 x 19-1/2 x 7/8	300	.21	.18	.24	4.73	5.55	5.55	508 x 508 x 26	5490	52.2	44.8	59.7
20 x 22 x 1	19-1/2 x 21-7/8 x 7/8	300	.21	.18	.24	5.24	6.15	6.15	508 x 558 x 26	5490	52.2	44.8	59.7
20 x 24 x 1	19-3/8 x 23-3/8 x 7/8	300	.21	.18	.24	5.69	6.68	6.68	508 x 610 x 26	5490	52.2	44.8	59.7
20 x 25 x 1	19-1/2 x 24-1/2 x 7/8	300	.21	.18	.24	5.93	6.96	6.96	508 x 635 x 26	5490	52.2	44.8	59.7
20 x 30 x 1	19-5/8 x 29-5/8 x 7/8	300	.21	.18	.24	7.20	8.23	8.23	508 x 762 x 26	5490	52.2	44.8	59.7
22 x 22 x 1	21-1/2 x 21-1/2 x 7/8	300	.21	.18	.24	6.43	7.17	7.17	558 x 558 x 26	5490	52.2	44.8	59.7
24 x 24 x 1	23-3/8 x 23-3/8 x 7/8	300	.21	.18	.24	6.93	7.92	7.92	610 x 610 x 26	5490	52.2	44.8	59.7
24 x 30 x 1	23-5/8 x 29-5/8 x 7/8	300	.21	.18	.24	8.66	9.90	9.90	610 x 762 x 26	5490	52.2	44.8	59.7
25 x 25 x 1	24-1/2 x 24-1/2 x 7/8	300	.21	.18	.24	7.48	8.51	8.51	635 x 635 x 26	5490	52.2	44.8	59.7
10 x 20 x 2	9-1/2 x 19-1/2 x 1-3/4	500	.31	.27	.31	3.84	6.24	6.24	254 x 508 x 51	9150	77.1	67.1	77.1
12 x 12 x 2	11-1/2 x 11-1/2 x 1-3/4	500	.31	.27	.31	2.89	4.33	4.33	305 x 305 x 51	9150	77.1	67.1	77.1
12 x 20 x 2	11-1/2 x 19-1/2 x 1-3/4	500	.31	.27	.31	4.80	7.20	7.20	305 x 508 x 51	9150	77.1	67.1	77.1
12 x 24 x 2	11-3/8 x 23-3/8 x 1-3/4	500	.31	.27	.31	5.77	8.66	8.66	305 x 610 x 51	9150	77.1	67.1	77.1
14 x 20 x 2	13-1/2 x 19-1/2 x 1-3/4	500	.31	.27	.31	5.76	8.64	8.64	356 x 508 x 51	9150	77.1	67.1	77.1
14 x 25 x 2	13-1/2 x 24-1/2 x 1-3/4	500	.31	.27	.31	7.22	10.83	10.83	356 x 635 x 51	9150	77.1	67.1	77.1
15 x 20 x 2	14-1/2 x 19-1/2 x 1-3/4	500	.31	.27	.31	6.24	9.12	9.12	381 x 508 x 51	9150	77.1	67.1	77.1
16 x 16 x 2	15-3/4 x 15-3/4 x 1-3/4	500	.31	.27	.31	4.98	7.66	7.66	406 x 406 x 51	9150	77.1	67.1	77.1
16 x 20 x 2	15-1/2 x 19-1/2 x 1-3/4	500	.31	.27	.31	6.24	9.60	9.60	406 x 508 x 51	9150	77.1	67.1	77.1
16 x 24 x 2	15-1/2 x 23-1/2 x 1-3/4	500	.31	.27	.31	7.50	11.55	11.55	406 x 610 x 51	9150	77.1	67.1	77.1
16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4	500	.31	.27	.31	7.82	12.03	12.03	406 x 635 x 51	9150	77.1	67.1	77.1
18 x 18 x 2	17-1/2 x 17-1/2 x 1-3/4	500	.31	.27	.31	7.20	11.04	11.04	457 x 457 x 51	9150	77.1	67.1	77.1
18 x 20 x 2	17-1/2 x 19-1/2 x 1-3/4	500	.31	.27	.31	7.20	11.04	11.04	457 x 508 x 51	9150	77.1	67.1	77.1
18 x 24 x 2	17-1/2 x 23-1/2 x 1-3/4	500	.31	.27	.31	8.66	13.28	13.28	457 x 610 x 51	9150	77.1	67.1	77.1
18 x 25 x 2	17-1/2 x 24-1/2 x 1-3/4	500	.31	.27	.31	9.02	13.84	13.84	457 x 635 x 51	9150	77.1	67.1	77.1
20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4	500	.31	.27	.31	8.16	12.00	12.00	508 x 508 x 51	9150	77.1	67.1	77.1
20 x 24 x 2	19-3/8 x 23-3/8 x 1-3/4	500	.31	.27	.31	9.81	14.43	14.43	508 x 610 x 51	9150	77.1	67.1	77.1
20 x 25 x 2	19-1/2 x 24-1/2 x 1-3/4	500	.31	.27	.31	10.23	15.04	15.04	508 x 635 x 51	9150	77.1	67.1	77.1
20 x 30 x 2	19-5/8 x 29-5/8 x 1-3/4	500	.31	.27	.31	12.00	18.24	18.24	508 x 762 x 51	9150	77.1	67.1	77.1
24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4	500	.31	.27	.31	11.55	17.61	17.61	610 x 610 x 51	9150	77.1	67.1	77.1
25 x 25 x 2	24-1/2 x 24-1/2 x 1-3/4	500	.31	.27	.31	12.63	18.65	18.65	635 x 635 x 51	9150	77.1	67.1	77.1

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g. All special sizes will be undersized by 1/8" unless specified otherwise.

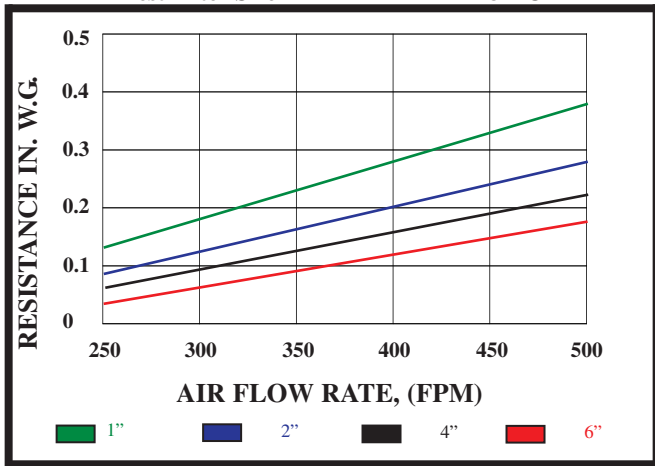
SIZE W x H x D NOMINAL	SIZE W x H x D EXACT	RATED VELOCITY FPM	INITIAL RESIST. IN. W.G.			MEDIA SQUARE FEET			SIZE W x H x D NOMINAL MM	RATED VELOCITY M/H	INITIAL RESIST. PASCALS		
			SC	HC	11	SC	HC	11			SC	HC	11
12 x 24 x 4	11-3/8 x 23-3/8 x 3-3/4	500	.25	.22	.25	11.13	13.61	13.61	457 x 610 x 102	9150	62.2	54.7	62.2
16 x 20 x 4	15-1/2 x 19-1/2 x 3-3/4	500	.25	.22	.25	12.34	15.43	15.43	406 x 508 x 102	9150	62.2	54.7	62.2
16 x 25 x 4	15-1/2 x 24-1/2 x 3-3/4	500	.25	.22	.25	15.47	19.34	19.34	406 x 635 x 102	9150	62.2	54.7	62.2
18 x 24 x 4	17-1/2 x 23-1/2 x 3-3/4	500	.25	.22	.25	17.32	21.03	21.03	457 x 610 x 102	9150	62.2	54.7	62.2
20 x 20 x 4	19-1/2 x 19-1/2 x 3-3/4	500	.25	.22	.25	15.43	18.52	18.52	508 x 508 x 102	9150	62.2	54.7	62.2
20 x 24 x 4	19-3/8 x 23-3/8 x 3-3/4	500	.25	.22	.25	18.55	22.27	22.27	508 x 610 x 102	9150	62.2	54.7	62.2
20 x 25 x 4	19-1/2 x 24-1/2 x 3-3/4	500	.25	.22	.25	19.34	23.20	23.20	508 x 635 x 102	9150	62.2	54.7	62.2
24 x 24 x 4	23-3/8 x 23-3/8 x 3-3/4	500	.25	.22	.25	22.27	27.21	27.21	610 x 610 x 102	9150	62.2	54.7	62.2
*25 x 29 x 4	24-1/2 x 28-1/2 x 3-3/4	500	-	.22	.25	-	34.80	34.80	635 x 737 x 102	9150	-	54.7	62.2
*28 x 30 x 4	27-3/8 x 29-3/8 x 3-3/4	500	-	.22	.25	-	37.92	37.92	711 x 762 x 102	9150	-	54.7	62.2
12 x 24 x 6	11-3/8 x 23-3/8 x 5-3/4	500	-	.17	.22	-	20.86	20.86	305 x 610 x 152	9150	-	42.3	41.2
16 x 20 x 6	15-1/2 x 19-1/2 x 5-3/4	500	-	.17	.22	-	23.66	23.66	406 x 508 x 152	9150	-	42.3	41.2
16 x 25 x 6	15-1/2 x 24-1/2 x 5-3/4	500	-	.17	.22	-	29.65	29.65	406 x 635 x 152	9150	-	42.3	41.2
18 x 24 x 6	17-1/2 x 23-1/2 x 5-3/4	500	-	.17	.22	-	32.24	32.24	457 x 610 x 152	9150	-	42.3	41.2
20 x 20 x 6	19-1/2 x 19-1/2 x 5-3/4	500	-	.17	.22	-	28.39	28.39	508 x 508 x 152	9150	-	42.3	41.2
20 x 24 x 6	19-3/8 x 23-3/8 x 5-3/4	500	-	.17	.22	-	34.14	34.14	508 x 610 x 152	9150	-	42.3	41.2
20 x 25 x 6	19-1/2 x 24-1/2 x 5-3/4	500	-	.17	.22	-	35.58	35.58	508 x 635 x 152	9150	-	42.3	41.2
24 x 24 x 6	23-3/8 x 23-3/8 x 5-3/4	500	-	.17	.22	-	41.73	41.73	610 x 610 x 152	9150	-	42.3	41.2

Tolerances shall be +/- 1/8" for height, width and +/- 1/16" for depth. Recommended final resistance is 1.00" w.g. All special sizes will be undersized by 1/8" unless specified otherwise.

*Utilizes four piece frame construction.

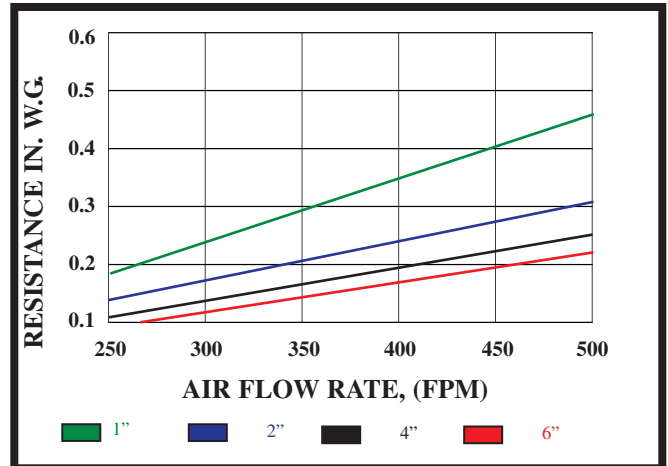
STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 2" MR-8 HC



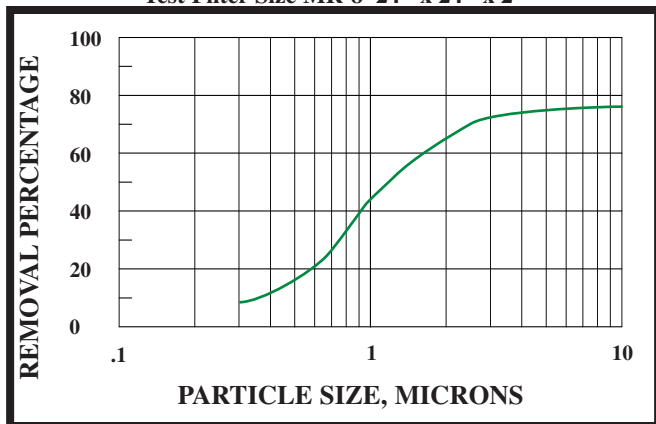
STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 2" MR-11



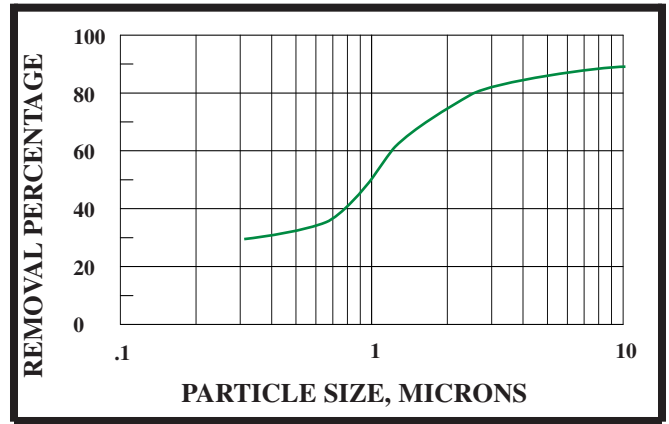
MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size MR-8 24" x 24" x 2"



MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size MR-11 24" x 24" x 2"



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GLASFLOSS' COMMITMENT to GREEN



For years, Glasfloss has been designing air filtration products for maximum energy savings and environmental benefits in HVAC systems. Now more than ever, our commitment to Green products and manufacturing processes is at the heart of our company. For more information on Glasfloss Green products and LEED project certification options, please contact your Glasfloss Sales Representative.

Z-LINE SERIES MR-8 & MR-11 LEED APPLICATION AND PERFORMANCE BENEFITS

- MR-8 meets LEED requirement for MERV 8 with lowest pressure drop available
- MR-8 meets American Institute of Architects (AIA) Guidelines for Healthcare Facilities- 2006 Edition (Filter Efficiencies, Table 2.1-3) (MERV 8)
- MR-8 meets ANSI/ASHRAE Standard 170-2008, Ventilation of Health Care Facilities (MERV 8)
- MR-8 meets NAFA Guidelines for Libraries, Archives & Museums for pre-filtering the airborne molecular contaminant (AMC) filtration stage (MERV 8)
- MR-11 provides exceptional efficiency on 1-3 micron size particles (E2 range)
- MR-11 achieves an average dust spot efficiency of 56% per ANSI/ASHRAE Standard 52.1
- MR-11 achieves MERV 11 with lowest pressure drop available

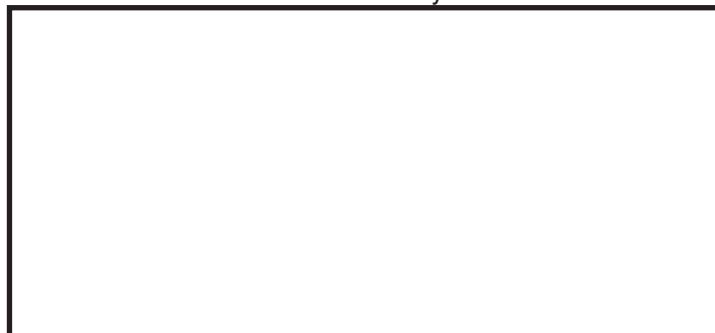


Glasfloss is proud to be an Energy Star Partner. The Energy Star Service and Product Provider Partnership is available to organizations that provide energy efficiency related products and/or services to the commercial buildings and industrial plants in the United States.



Glasfloss manufactures a variety of medium and high efficiency air filters which can be specified for LEED certification applications. For specific information on these products, please contact your local Glasfloss Sales Representative.

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