

Z-LINE® SERIES

ZL, HV & MR-11

- ZL & HV: MERV 10
MR-11: MERV 11
- Heavy-Duty Moisture Resistant Construction
- Galvanized Expanded Metal Backing
- Standard Size 4" and 6" Thick
- Incorporate Media Separators
- Geothermal Unit Replacement Filters

The Glasfloss Z-Line® Series pleated filters offer improved performance for virtually every application. All Glasfloss Z-Line® pleated filters feature fibers which do not absorb moisture and will not support microbial growth.

FEATURES



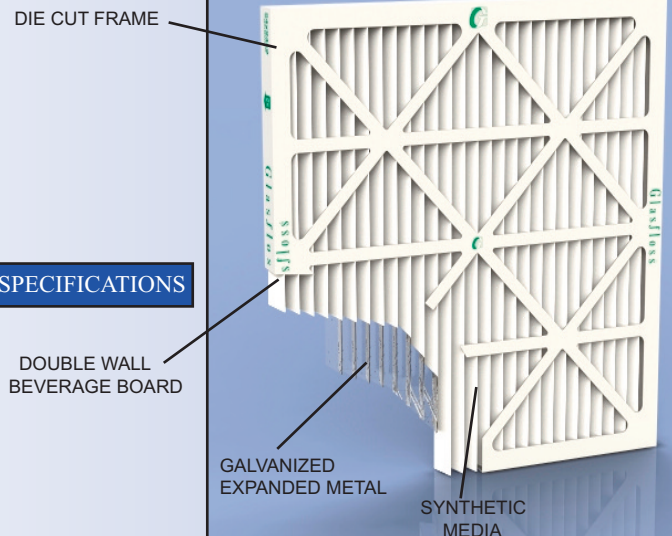
The Z-Line® Series pleated filter products include:

- ZL - Offers excellent performance and value for a wide range of applications
- HV - Ideal in high-velocity systems where maximum square footage of media is necessary
- MR-11- Provides high performance with low pressure drop for energy efficiency

Glasfloss Z-Line® Series ZL, HV and MR-11 air filters shall be of the extended-surface pleated-media type. The media utilized shall be made of 100% synthetic fibers. The media shall be pleated in a tapered radial configuration. A heavy duty, recycled expanded metal reinforcement shall be laminated to the air-exit 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 pleated cartridge shall be bonded to the peripheral interior of the outer frame. A heavy-duty moisture-resistant beverage board incorporating post-consumer material shall be utilized for an encasing frame. The frame face shall be internally laminated to the pleated cartridge apexes. Glasfloss Z-Line® Series ZL, HV and MR-11 filters shall be classified under U.L. std. 900 and shall be rated to withstand temperatures up to 180 degrees Fahrenheit. The Glasfloss Z-Line® Series ZL and HV filters achieve a MERV 10 rating and MR-11 filters achieve a MERV 11 rating per the ANSI/ASHRAE 52.2 Test Standard.



SPECIFICATIONS



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

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PRODUCT BULLETIN 6ZLINE · SECTION 6 · 8/19/21

| 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 | | |
|------------------------------|----------------------------|--------------------------|--------------------------------|-----|-------|-------------------------|-------|-------|------------------------------------|--------------------------|-------------------------------|------|-------|
| | | | ZL | HV | MR-11 | ZL | HV | MR-11 | | | ZL | HV | MR-11 |
| 12 x 24 x 4 | 11-3/8 x 23-3/8 x 3-3/4 | 500 | .24 | .22 | .25 | 11.13 | 13.61 | 13.61 | 457 x 610 x 102 | 9150 | 59.7 | 54.7 | 62.2 |
| 16 x 20 x 4 | 15-1/2 x 19-1/2 x 3-3/4 | 500 | .24 | .22 | .25 | 12.34 | 15.43 | 15.43 | 406 x 508 x 102 | 9150 | 59.7 | 54.7 | 62.2 |
| 16 x 24 x 4 | 15-1/2 x 23-1/2 x 3-3/4 | 500 | .24 | - | - | 14.84 | - | - | 406 x 610 x 102 | 9150 | 59.7 | - | - |
| 16 x 25 x 4 | 15-1/2 x 24-1/2 x 3-3/4 | 500 | .24 | .22 | .25 | 15.47 | 19.34 | 19.34 | 406 x 635 x 102 | 9150 | 59.7 | 54.7 | 62.2 |
| 18 x 24 x 4 | 17-1/2 x 23-1/2 x 3-3/4 | 500 | .24 | .22 | .25 | 17.32 | 21.03 | 21.03 | 457 x 610 x 102 | 9150 | 59.7 | 54.7 | 62.2 |
| 20 x 20 x 4 | 19-1/2 x 19-1/2 x 3-3/4 | 500 | .24 | .22 | .25 | 15.43 | 18.52 | 18.52 | 508 x 508 x 102 | 9150 | 59.7 | 54.7 | 62.2 |
| 20 x 24 x 4 | 19-3/8 x 23-3/8 x 3-3/4 | 500 | .24 | .22 | .25 | 18.55 | 22.27 | 22.27 | 508 x 610 x 102 | 9150 | 59.7 | 54.7 | 62.2 |
| 20 x 25 x 4 | 19-1/2 x 24-1/2 x 3-3/4 | 500 | .24 | .22 | .25 | 19.34 | 23.20 | 23.20 | 508 x 635 x 102 | 9150 | 59.7 | 54.7 | 62.2 |
| 24 x 24 x 4 | 23-3/8 x 23-3/8 x 3-3/4 | 500 | .24 | .22 | .25 | 22.27 | 27.21 | 27.21 | 610 x 610 x 102 | 9150 | 59.7 | 54.7 | 62.2 |
| 12 x 24 x 6 | 11-3/8 x 23-3/8 x 5-3/4 | 500 | - | .18 | .22 | - | 20.86 | 20.86 | 305 x 610 x 152 | 9150 | - | 44.8 | 54.7 |
| 16 x 20 x 6 | 15-1/2 x 19-1/2 x 5-3/4 | 500 | - | .18 | .22 | - | 23.66 | 23.66 | 406 x 508 x 152 | 9150 | - | 44.8 | 54.7 |
| 16 x 25 x 6 | 15-1/2 x 24-1/2 x 5-3/4 | 500 | - | .18 | .22 | - | 29.65 | 29.65 | 406 x 635 x 152 | 9150 | - | 44.8 | 54.7 |
| 18 x 24 x 6 | 17-1/2 x 23-1/2 x 5-3/4 | 500 | - | .18 | .22 | - | 32.24 | 32.24 | 457 x 610 x 152 | 9150 | - | 44.8 | 54.7 |
| 20 x 20 x 6 | 19-1/2 x 19-1/2 x 5-3/4 | 500 | - | .18 | .22 | - | 28.39 | 28.39 | 508 x 508 x 152 | 9150 | - | 44.8 | 54.7 |
| 20 x 24 x 6 | 19-3/8 x 23-3/8 x 5-3/4 | 500 | - | .18 | .22 | - | 34.14 | 34.14 | 508 x 610 x 152 | 9150 | - | 44.8 | 54.7 |
| 20 x 25 x 6 | 19-1/2 x 24-1/2 x 5-3/4 | 500 | - | .18 | .22 | - | 35.58 | 35.58 | 508 x 635 x 152 | 9150 | - | 44.8 | 54.7 |
| 24 x 24 x 6 | 23-3/8 x 23-3/8 x 5-3/4 | 500 | - | .18 | .22 | - | 41.73 | 41.73 | 610 x 610 x 152 | 9150 | - | 44.8 | 54.7 |

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.

Pleats Per Lineal Foot

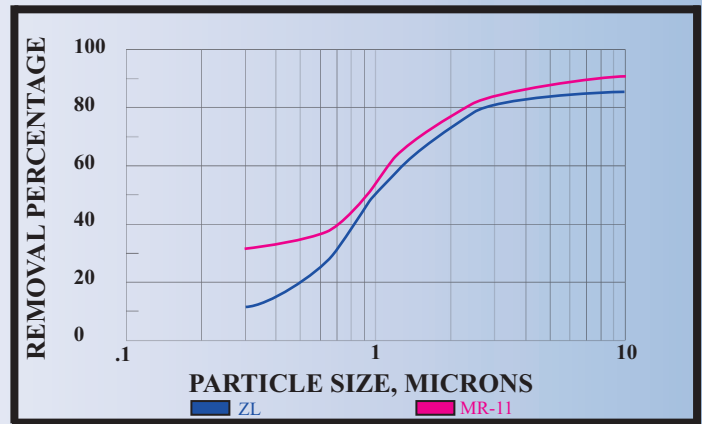
| DEPTH | ZL | HV | MR-11 |
|-------|----|----|-------|
| 1" | 14 | 16 | 16 |
| 2" | 10 | 15 | 15 |
| 4" | 9 | 11 | 11 |
| 6" | - | 11 | 11 |

Media Area to Face Area Ratio

| DEPTH | ZL | HV | MR-11 |
|-------|------|-------|-------|
| 1" | 1.73 | 1.97 | 1.97 |
| 2" | 2.88 | 4.40 | 4.40 |
| 4" | 5.56 | 6.80 | 6.80 |
| 6" | - | 10.43 | 10.43 |

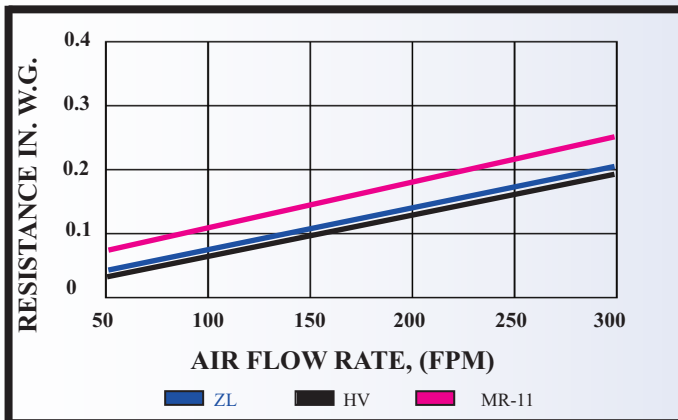
MINIMUM PARTICLE SIZE EFFICIENCY

Test Filter Size 24" x 24" x 2" Nominal



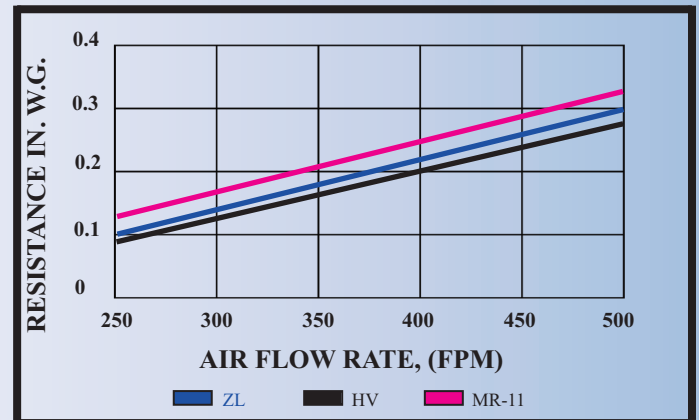
STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 1" Nominal



STANDARD PRESSURE DROP

Test Filter Size 24" x 24" x 2" Nominal



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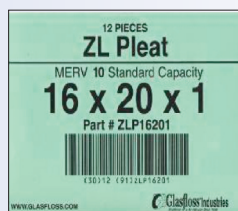
**Glasfloss Z-Line® MERV 11
Geothermal Unit Replacement Filters
One Piece Die-Cut Frame Construction**

- Improved Rigidity
- Increased Media Area
- MERV 11 Performance



| GEOTHERMAL REPLACEMENT SIZES | | | |
|------------------------------|---------------------|-----------------|---------------|
| PART NUMBER | ACTUAL SIZES | CARTON QUANTITY | CARTON WEIGHT |
| M1124282 | 23-1/2 x 27-3/4 x 2 | 6 | 14 LB |
| M1128302 | 27-3/4 x 29-3/8 x 2 | 6 | 16 LB |
| M1130322 | 29-3/8 x 31-3/4 x 2 | 6 | 17 LB |
| M1130362 | 29-3/8 x 35-3/4 x 2 | 6 | 18 LB |

Glasfloss Industries incorporates color-coded carton labels on standard sizes to help identify the product, which enhance warehouse operations and shipments.



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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