

# FP 4V and FP-S MINI-PLEAT

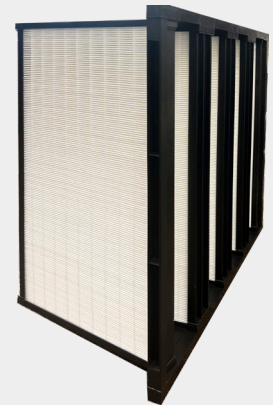


## SPECIFICATIONS

- MERV 14A, 15A, 16 and FP-R (98% DOP) - wet-laid micro-fiberglass media
- MERV 11, 14, 15/14A - synthetic media
- Gasketing and double headers are available options
- Max Temperature 150°F

## ADVANTAGES

- FP 4V micro-glass design incorporates 202 sq. ft. of high efficiency fiberglass media and 150 sq. ft. of synthetic media within a 24x24x12 frame
- Increased dust holding capacity and filter life
- Low pressure drop results in significant energy savings
- Rigid construction allows it to withstand unfavorable conditions especially variable air volume (VAV) systems and 100% relative humidity
- High impact plastic frame creates an exceptionally strong lightweight filter
- Maximum flow rate of 750 fpm
- Sustainable component for a LEED/Green building initiative
- Environmentally friendly
  - No metal corrosion
  - Fully incinerable
  - Reduces landfill waste



## PRODUCTS DATA

| FP 4V (FIBERGLASS MEDIA) – PART NUMBER |          |         |                | NOMINAL SIZE<br>(H" x W" x D") | ACTUAL SIZE<br>(H" x W" x D") | APPROX. WEIGHT<br>(LBS.) | MEDIA AREA<br>(SQ. FT.) |
|----------------------------------------|----------|---------|----------------|--------------------------------|-------------------------------|--------------------------|-------------------------|
| MERV 14A                               | MERV 15A | MERV 16 | MERV 16 (FP-R) |                                |                               |                          |                         |
| 40039-P                                | 40069-P  | 40093-P | 40117-P        | 12 x 24 x 12                   | 11 3/8 x 23 3/8 x 11 1/2      | 5.7                      | 90                      |
| 40156-P                                | 40068-P  | 40345-P | 40346-P        | 20 x 20 x 12                   | 19 3/8 x 19 3/8 x 11 1/2      | 8.4                      | 120                     |
| 40033-P                                | 40058-P  | 40087-P | 40111-P        | 20 x 24 x 12                   | 19 3/8 x 23 3/8 x 11 1/2      | 9.4                      | 165                     |
| 40023-P                                | 40046-P  | 40077-P | 40102-P        | 24 x 24 x 12                   | 23 3/8 x 23 3/8 x 11 1/2      | 11.0                     | 202                     |

| FP-S (SYNTHETIC MEDIA) – PART NUMBER |          |             | NOMINAL SIZE<br>(H" x W" x D") | ACTUAL SIZE<br>(H" x W" x D") | APPROX. WEIGHT<br>(LBS.) | MEDIA AREA<br>(SQ. FT.) |
|--------------------------------------|----------|-------------|--------------------------------|-------------------------------|--------------------------|-------------------------|
| MERV 11                              | MERV 14  | MERV 15/14A |                                |                               |                          |                         |
| 42500                                | 42506    | 42209       | 12 x 24 x 12                   | 11 3/8 x 23 3/8 x 11 1/2      | 5.0                      | 63                      |
| –                                    | 761533-P | 763186-P    | 20 x 20 x 12                   | 19 3/8 x 19 3/8 x 11 1/2      | 7.0                      | 87                      |
| 42502                                | 42508    | 42207       | 20 x 24 x 12                   | 19 3/8 x 23 3/8 x 11 1/2      | 8.3                      | 118                     |
| 45203                                | 42509    | 42205       | 24 x 24 x 12                   | 23 3/8 x 23 3/8 x 11 1/2      | 10.0                     | 150                     |

# FP 4V and FP-S MINI-PLEAT

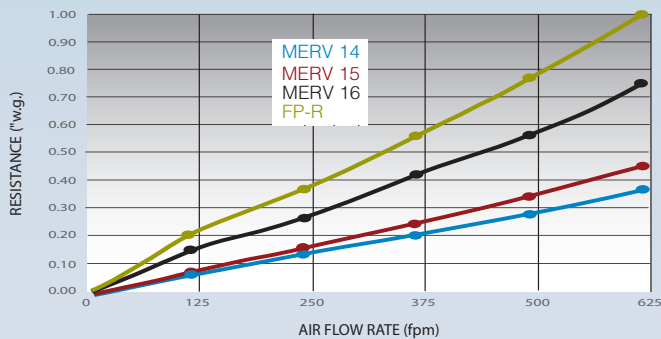
FP 4V PERFORMANCE DATA (24 x 24 x 12)

| MEDIA      | MERV | INITIAL RESISTANCE ("w.g.) |         |         | FINAL RESISTANCE ("w.g.) |
|------------|------|----------------------------|---------|---------|--------------------------|
|            |      | 375 fpm                    | 500 fpm | 625 fpm |                          |
| Fiberglass | 14A  | 0.20                       | 0.34    | 0.37    | 2.0                      |
|            | 15A  | 0.24                       | 0.38    | 0.45    | 2.0                      |
|            | 16   | 0.41                       | 0.57    | 0.75    | 2.0                      |
|            | FP-R | 0.56                       | 0.77    | 1.00    | 2.0                      |

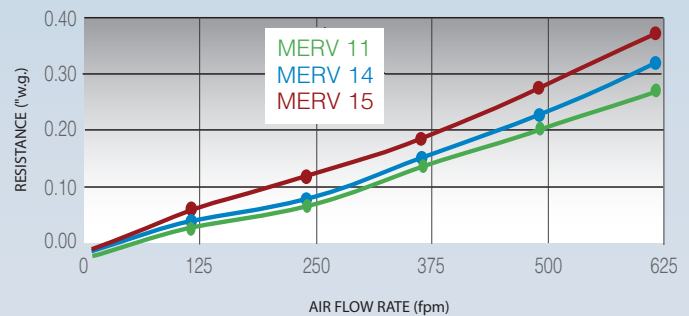
FP-S PERFORMANCE DATA (24 x 24 x 12)

| MEDIA     | MERV   | INITIAL RESISTANCE ("w.g.) |         |         | FINAL RESISTANCE ("w.g.) |
|-----------|--------|----------------------------|---------|---------|--------------------------|
|           |        | 375 fpm                    | 500 fpm | 625 fpm |                          |
| Synthetic | 11     | 0.13                       | 0.20    | 0.28    | 2.0                      |
|           | 14     | 0.14                       | 0.22    | 0.31    | 2.0                      |
|           | 15/14A | 0.19                       | 0.28    | 0.38    | 2.0                      |

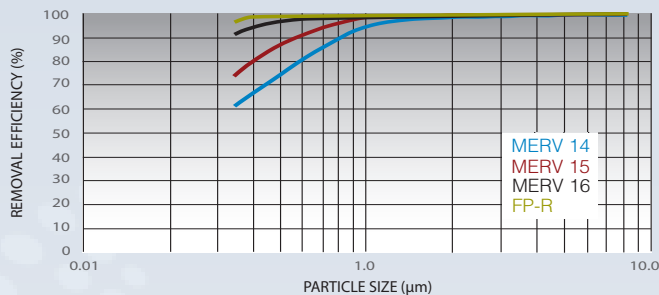
FP 4V – INITIAL RESISTANCE (24 x 24 x 12)



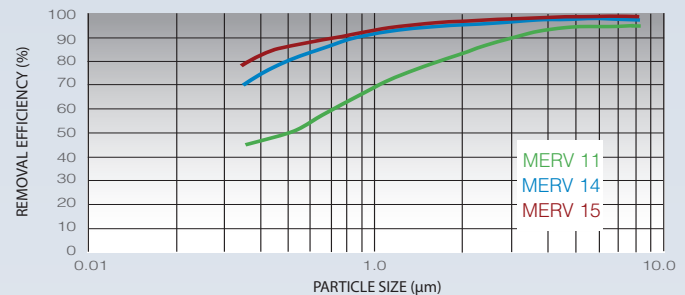
FP-S – INITIAL RESISTANCE (24 x 24 x 12)



FP 4V – MINIMUM REMOVAL EFFICIENCY (24 x 24 x 12)



FP-S – MINIMUM REMOVAL EFFICIENCY (24 x 24 x 12)



## ENGINEERING SPECIFICATIONS

### 1.0 General

- 1.1 Filters shall be FP 4V and FP-S Mini-Pleat filters as manufactured by Filtration Group.
- 1.2 Filters shall be available in depths of 12" only.
- 1.3 Underwriters Laboratories classified to UL 900.

### 2.0 Filter Materials of Construction

- 2.1 Media shall be wet-laid micro-fiberglass or gradient density synthetic media with hot melt or string separators to maintain pleat uniformity and spacing.
- 2.2 Frame shall be a high impact plastic with built in header on top and bottom.
- 2.3 Media shall be adhered and sealed to frame with polyurethane to prevent by-pass.
- 2.4 Frame shall have slopes to allow for moisture and water drainage.

- 2.5 Filter frames shall have preformed locations for both prefilter clips and final filter clips to be attached.

### 3.0 Filter Performance

- 3.1 Filters shall be available as MERV 14A, 15A, 16 or R for fiberglass media and MERV 11, 14 or 15/14A for synthetic media as desired by end user when tested in accordance with the ASHRAE 52.2 Test Standard.
- 3.2 For initial resistance of filters, see Performance Data chart above.
- 3.3 Filter shall be rated to withstand a continuous operating temperature up to 150°F.
- 3.4 Filters shall have a recommended final resistance of 2.0" w.g.