INDUSTRY LEADER IN CLEAN AIR SOLUTIONS

# SuperFlow® V

## EXTENDED SURFACE MINI-PLEAT FILTERS

- Low clean pressure drop for energy savings
- Aerodynamic vertical supports minimize air entry turbulence
- May be operated from 0 to 750 FPM face velocity in either airflow direction
- Moisture-resistant for humid air applications

SuperFlow V extended surface area and low pressure drop mini-pleat filters are designed for use in most commercial and industrial HVAC systems where high efficiency filtration is required. SuperFlow V filters are available in MERV 15 and MERV 14 efficiencies. They may be operated at face velocities from 0 – 750 FPM.

## Construction

SuperFlow V filters are constructed of multiple mini-pleat panels bonded to flame-retardant plastic panels on top and bottom to make an unusually strong assembly that is both corrosion and moisture resistant. Aerodynamic extruded vertical supports minimize air entry turbulence. SuperFlow V filters are totally rigid, making them ideal for variable air volume (VAV) systems, as well as applications downstream of supply fans.

## Low Pressure Drop

SuperFlow V mini-pleat filters have an exceptionally low clean pressure drop. Lower pressure drop means less energy is necessary to move air throughout the system, lowering utility costs and allowing high efficiency filters to be added to systems with reduced fan capacity.

Along with lowering clean pressure drop, the additional media area achieved by this filter's V-bank design also increases its atmospheric dust-holding capacity (DHC). Higher DHC means that, over the course of its useful life, the SuperFlow V filter will see smaller increases in pressure drop than a traditional box-style filter under similar conditions, for added energy savings and lower overall cost of ownership.

## Installation Considerations

SuperFlow V filters may be installed in AAF holding frames or side access housings. Holding frames are riveted together to form a filter bank. Smaller systems and systems with minimum upstream access space are best served using side access housings.

SuperFlow V filters are furnished with a peripheral header on the air entering side.

## Physical Data

**Media:** Moisture-resistant microfine fiberglass

**Filter Pack:** Mini-pleat panels

**Media Support:** Adhesive

**Top & Bottom Panels:** Flame-retardant plastic

**Vertical Supports:** Aerodynamic extruded vertical supports

**Operating Limits**: 160°F (71°C) & 100% RH continuous duty

**Actual Header Size**: Nominal size less ⅝" (e.g. a nominal 24" x 24" filter is actually 23⅜" x 23⅜")

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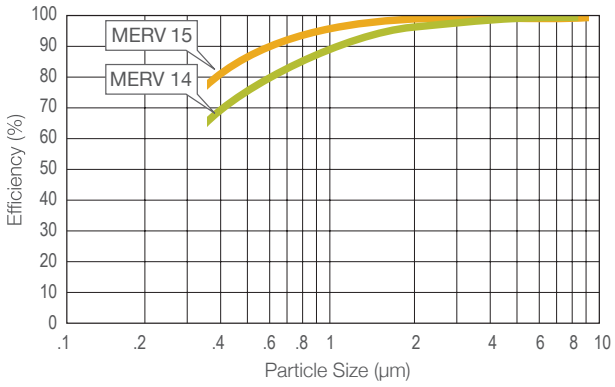
# SuperFlow® V Filter

## Product Information – Standard Sizes & Performance Data

| Efficiency | Model Number | Nominal Size (inches) (W x H x D) | 250 FPM | | 375 FPM | | 500 FPM | | 625 FPM | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | CFM | PD | CFM | PD | CFM | PD | CFM | PD |
| **MERV 15** | 3161007-003 | 24 x 24 x 12 | 1000 | 0.18 | 1500 | 0.28 | 2000 | 0.41 | 2500 | 0.54 |
| **MERV 15** | 3161007-001 | 24 x 12 x 12 | 500 | 0.18 | 750 | 0.28 | 1000 | 0.41 | 1250 | 0.54 |
| **MERV 14** | 3161007-006 | 24 x 24 x 12 | 1000 | 0.12 | 1500 | 0.23 | 2000 | 0.34 | 2000 | 0.49 |
| **MERV 14** | 3161007-004 | 24 x 12 x 12 | 500 | 0.12 | 750 | 0.23 | 1000 | 0.34 | 1250 | 0.49 |

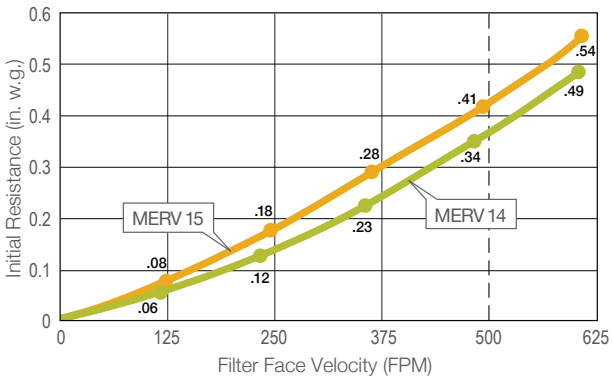
## Performance Data

### Composite Minimum Efficiency Curve




Tested in accordance with ASHRAE Standard 52.2.

### Initial Resistance vs. Filter Face Velocity




All performance data based on ASHRAE Standard 52.2. Performance tolerance conforms to Section 6.4 of ANSI/AHRI Standard 850-2013.
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AAF has a policy of continuous product research and improvement. We reserve the right to change design and specifications without notice.



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