

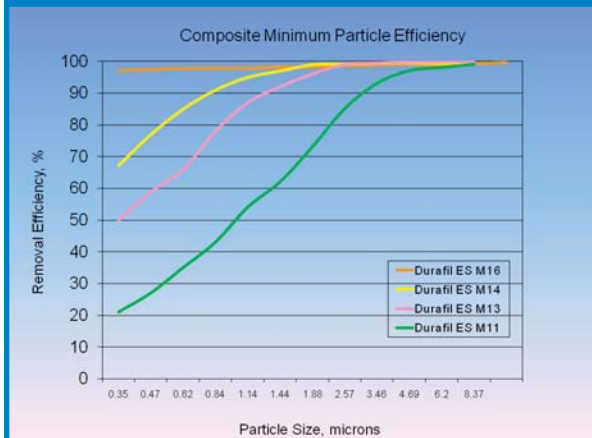


# Durafil® ES

High Efficiency, High Capacity, Energy Saving, Mini-Pleated V-Bank Air Filter



Saves 20-35% more energy than any other V-style filter



The above chart shows relative efficiency values at various particle sizes when tested in accordance with ASHRAE Standard 52.2. When tested in accordance with Appendix J of that Standard the Durafil ES maintains these efficiency values throughout the life of the filter.

The Camfil Farr Durafil Energy Saver (ES) provides high efficiency ASHRAE air filter performance in a compact energy efficient design. The Durafil ES:

- Has a computer-optimized pleat-to-height ratio creating a radial air-exiting and air-entering design that offers a 60% larger outlet, and 30% larger inlet than any other V-bank style air filter, resulting in lower pressure drop and significant energy savings.
- Has the highest volume of microfibre filter media available for higher dust-holding capacity, longer life and lower average pressure drop over the life of the filter to save energy.
- Features a special grade of energy saving media with engineered characteristics to reduce pressure drop.
- Is available in four standard efficiencies — MERV 11, MERV 13, MERV 14 and MERV 16, per ASHRAE Standard 52.2. The Durafil ES has a MERV-A value of 11, 13, 14 and 16 respectively when tested using the conditioning step, as specified in Appendix J of the same Standard.
- Includes an integral prefilter spacer section designed to minimize static pressure when a prefilter is positioned on the face of the Durafil ES. The lives of the final filter and prefilter are extended and pressure drop is minimized to save energy.
- Includes media separators creating uniform airflow throughout the media pack.
- Incorporates a unique sealant channel ensuring media pack-to-frame bonding to prevent air bypass.
- Includes an impact-resistant plastic enclosing frame, with plastic media pack supports, ensuring a rigid and durable filter. Bridging supports on each 'V' provide handles for installation and transport, and maintains the rigidity of the filter. The frame also has built-in spring fastener attachment locations, prefilter fastener attachment locations, and recessed front and back inlet and outlet handles for changing and aligning the filter during installation.
- Includes a one-inch nominal size header, as an integral component of the frame, for added stability and a secure fit into filter holding mechanism or housing.
- Includes a sealing gasket on one vertical header to eliminate air bypass between headers in multiple filter systems.
- Can be installed in systems with airflow capacities to 3,000 cfm. Maximum pressure drop capability is guaranteed to 2.0" w.g. and filter integrity is guaranteed to 10.0" w.g.
- Is the lightest weight V-bank filter available.
- Has an ECI<sup>1</sup> value of five stars.

The Durafil's superior performance characteristics relating to human and environmental health, energy efficiency, materials selection and indoor environmental quality, make it the final filter of choice for facilities pursuing green building status.

<sup>1</sup> A 5-Star rating indicates that this filter performs in the top 20% of all products of similar construction in the HVAC industry. Factors of consideration include maintained efficiency, energy usage and resistance to air flow. Detailed evaluation information is available from your Camfil Farr sales outlet or on the web at [www.camfilfarr.com](http://www.camfilfarr.com).



|                                   |               |
|-----------------------------------|---------------|
| Camfil Farr                       | Product Sheet |
| Durafil® ES                       | 1515 - 0210   |
| Camfil Farr - clean air solutions |               |

**PERFORMANCE DATA**

**DURAFIL® ES**

| ASHRAE Efficiency                              | Part Number             | Nominal Size (H x W X D) (inches) | Actual Dimensions (H x W x D) (inches) | Media Area (sq. ft.) | Initial Resistance (inches w.g.) | Airflow Capacity (cfm) |
|--|-------------------------|-----------------------------------|--|----------------------|----------------------------------|------------------------|
| MERV 16 <sup>a</sup><br>MERV 16-A <sup>b</sup> | 855080-014              | 24 x 24 X 12                      | 23.38 x 23.38 x 12.38                  | 200                  | 0.64                             | 2000                   |
|  | 855080-030              | 20 x 24 X 12                      | 19.38 x 23.38 x 12.38                  | 160                  |                                  | 1500                   |
|  | 855080-021              | 12 x 24 X 12                      | 11.38 x 23.38 x 12.38                  | 100                  |                                  | 1000                   |
|  | 855080-188 <sup>d</sup> | 20 x 20 X 12                      | 19.38 x 19.38 x 11.50                  | 125                  | 0.80                             | 1250                   |
| MERV 14 <sup>a</sup><br>MERV 14-A <sup>b</sup> | 855080-009              | 24 x 24 X 12                      | 23.38 x 23.38 x 12.38                  | 200                  | 0.31                             | 2000                   |
|  | 855080-006              | 20 x 24 X 12                      | 19.38 x 23.38 x 12.38                  | 160                  |                                  | 1500                   |
|  | 855080-003              | 12 x 24 X 12                      | 11.38 x 23.38 x 12.38                  | 100                  |                                  | 1000                   |
|  | 855080-065 <sup>d</sup> | 20 x 20 X 12                      | 19.38 x 19.38 x 11.50                  | 125                  | 0.37                             | 1250                   |
| MERV 13 <sup>c</sup><br>MERV 13-A <sup>b</sup> | 855080-008              | 24 x 24 X 12                      | 23.38 x 23.38 x 12.38                  | 200                  | 0.28                             | 2000                   |
|  | 855080-005              | 20 x 24 X 12                      | 19.38 x 23.38 x 12.38                  | 160                  |                                  | 1500                   |
|  | 855080-002              | 12 x 24 X 12                      | 11.38 x 23.38 x 12.38                  | 100                  |                                  | 1000                   |
|  | 855080-065 <sup>d</sup> | 20 x 20 X 12                      | 19.38 x 19.38 x 11.50                  | 125                  | 0.33                             | 1250                   |
| MERV 11<br>MERV 11-A <sup>b</sup>              | 855080-007              | 24 x 24 X 12                      | 23.38 x 23.38 x 12.38                  | 200                  | 0.22                             | 2000                   |
|  | 855080-004              | 20 x 24 X 12                      | 19.38 x 23.38 x 12.38                  | 160                  |                                  | 1500                   |
|  | 855080-001              | 12 x 24 X 12                      | 11.38 x 23.38 x 12.38                  | 100                  |                                  | 1000                   |
|  | 855080-063 <sup>d</sup> | 20 x 20 X 12                      | 19.38 x 19.38 x 11.50                  | 125                  | 0.27                             | 1250                   |

**DATA NOTES:**

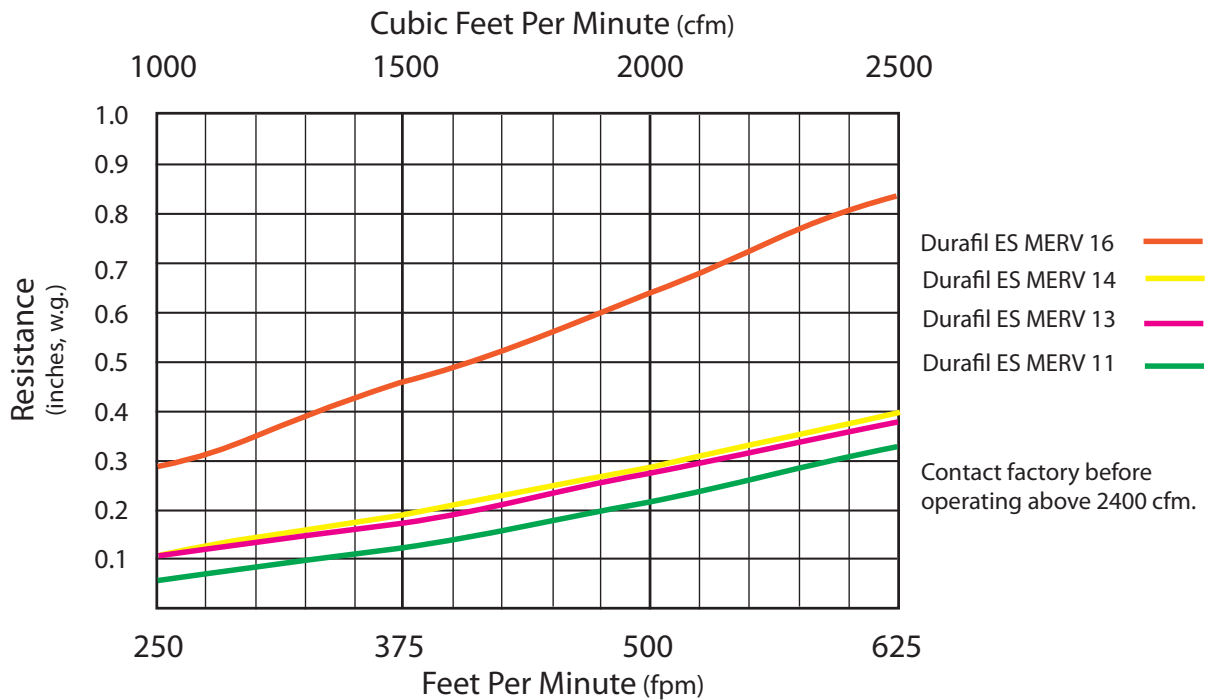
<sup>a</sup> May provide additional LEED credits.  
<sup>b</sup> Discharged efficiency per appendix J of ASHRAE Standard 52.2.  
<sup>c</sup> Minimum efficiency selection for LEED consideration.  
<sup>d</sup> 20" by 20" size does not have spacing plenum for prefilter application. Contact factory for prefiltration guidance. This size does not have radial configuration.  
 Airflow may be in either direction.  
 Maximum recommended pressure drop is 1.50" w.g., system design may dictate a lower change-out point.  
 Maximum continuous operating temperature 175° F. (79° C.), relative humidity 99%.  
 Qualified by Underwriters Laboratories as UL 900.  
 Performance tolerance in accordance with ARI Standard 850.

**Options:**

Available with gaskets in any location.  
 Available with dual headers as shown to the right.  
 See Product Sheet 1515B.



**Initial Resistance Versus Airflow**



Contact factory before operating above 2400 cfm.

Detailed specifications for Camfil Farr products are available at [www.camfilfarr.com](http://www.camfilfarr.com) web site.

Camfil Farr is committed to continuous research, development and product improvement. We reserve the right to change designs and specifications without notice.

**Camfil Farr, Inc.**

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