



## **Multi-Sak Series S Filter, MERV 13, (85%), Engineering Specification**

### **1.0 General**

- 1.1 Filters shall be Multi-Sak Series S filter as manufactured by Koch Filter Corporation.
- 1.2 Filters shall be available in a nominal depth of between 12" and 36" in 1" increments.
- 1.3 Filters shall be available in pocket counts of 3, 4, 5, 6, 7, 8, 10 and 12, (minimum and maximum pocket amounts dependent on width size).
- 1.4 Filters shall be Underwriters Laboratories Standard 900 Classified.

### **2.0 Filter Construction and Materials**

- 2.1 Media shall be 100% synthetic fibers.
- 2.2 Pockets shall be assembled with a span stitching design with each stitch line sealed with a thermoplastic adhesive to prevent air bypass. The pocket edges shall be sewn to prevent air bypass. The pocket to header connection as well as the pocket to cross support members shall be secured with a waterproof adhesive to seal the pockets in place.
- 2.3 Each cross support connection shall be secured with a pneumatically crimped galvanized steel cover.
- 2.4 Frame shall be made with galvanized steel.
- 2.5 Frame shall have a built in header around the upstream perimeter of the filter, (13/16" deep standard or 1 1/8" deep optional).
- 2.6 Pocket loops are available as an option. The locations include top, top and bottom, center or continuous.

### **3.0 Filter Performance**

- 3.1 Filters shall be available as MERV 13 when tested in accordance with ASHRAE 52.2 – 2007 and ASHRAE 52.2 – 2007 Appendix J.
- 3.2 The initial pressure drop of the filter is dependent on the number of pockets and pocket length. The rated capacity of the filter is 500 fpm.
- 3.3 Filter shall be rated to withstand a continuous operating temperature up to 180 degrees Fahrenheit or 82 degrees Celsius.
- 3.4 Filters shall have a recommended final resistance of 1.5" w. g.
- 3.5 Filters should be installed with the pockets in the vertical position.