



## **Maxi-Grid Series 400 Filter Engineering Specification**

### **1.0 General**

- 1.1 Filters shall be Maxi-Grid Series 400 filter as manufactured by Koch Filter Corporation.
- 1.2 Filters shall be available in a 4-ply configuration.
- 1.3 Filters shall be Underwriters Laboratories Standard 900 Classified.

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

- 2.1 Media shall be 100% synthetic fibers with a non-migrating tackifier on the downstream layer of media of the filter. Media color, white on the upstream, green on the downstream. Media shall be antimicrobial treated.
- 2.2 Filters shall contain a rust resistant internal steel support wire positioned to provide for a self-sealing installation of the filter. An internal cross wire is provided, when appropriate, (based on filter size), as a standard assembly.
- 2.3 Filters are assembled utilizing a heat seal on the perimeter as well as the center of the filters to prevent media vibration when in use.
- 2.4 Filters are available in a link configuration.

### **3.0 Filter Performance**

- 3.1 Filters shall be available as MERV 11 when tested in accordance with ASHRAE 52.2 – 2007.
- 3.2 Filters shall have an initial pressure drop of 0.48" w. g. @ a flow of 400 fpm, (+/- 10% per A.R.I. Standard).
- 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 1.0" w. g.