Moisture resistant media for high humidity applications

Designed for use in Variable Air Volume systems

Replaces traditional pocket-style filters

Rigid format prevents unloading of dust due to media oscillation

Galvanized steel frame provides exceptional strength

Underwriters Laboratories classified to UL 900

DESCRIPTION
The Cartridge Filter is an extended surface, high efficiency filter constructed in a rigid frame. The filter utilizes a continuous sheet of wet laid microfiber media that is deep pleated. This media can operate in applications that have 100% humidity. Hemmed edge aluminum corrugated separators are placed between each pleat to stabilize the pack and ensure proper air flow through the filter. The media pack is sealed to all four sides of the frame. The result is a high integrity filter that delivers high efficiency and consistent performance. The Cartridge Filter is available in a MERV 11, MERV 13 and MERV 14 per ASHRAE standard 52.2-2007 in both 6” and 12” depths. Single or double header versions are also available.

BENEFITS
The Cartridge Filter can be used in diverse conditions including 100% humidity and turbulent or variable air volume (VAV) systems. With such durability, this filter usually requires fewer changeouts than pocket or rigid cell filters.

The Cartridge Filter is an upgrade from lofted high efficiency fiberglass media filters and provides more media per filter than the traditional pocket style or rigid cell filter. The construction and media of this filter eliminates fiber shedding and dust particle unloading.

APPLICATIONS
The Cartridge Filter can be used in place of pocket filters when conditions call for a rigid filter or where high humidity warrants its use. These filters can be used in a variety of commercial and industrial applications including hospitals, high-tech manufacturing and food processing. This filter can also be used in place of other rigid cell filters when high dust holding capacity is desired.
CARTRIDGE FILTER

DIMENSIONS AND PERFORMANCE DATA

MERV 14

<table>
<thead>
<tr>
<th>SINGLE* HEADER PART NO.</th>
<th>DOUBLE* HEADER PART NO.</th>
<th>NOMINAL FILTER SIZE (H x W x D)</th>
<th>INITIAL RESISTANCE</th>
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<tbody>
<tr>
<td>16296</td>
<td>16304</td>
<td>24 x 12 x 6</td>
<td>0.45</td>
</tr>
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<td>20 x 20 x 6</td>
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<td>24 x 20 x 6</td>
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</tr>
<tr>
<td>16294</td>
<td>16302</td>
<td>24 x 24 x 6</td>
<td>0.45</td>
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</tbody>
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ENGINEERING SPECIFICATIONS

1.0 General

1.1 Filters shall be Aerostar® Cartridge Cell filters as manufactured by Filtration Group.

1.2 Filters shall be available in 3 efficiency levels at nominal depths of 6" (5.75" actual) and 12" (11.375" actual).

1.3 Actual filter height and width shall be 5/8" less than the nominal dimensions.

1.4 Underwriters Laboratories classified to UL 900.

1.5 Filters are manufactured by an ISO 9001 registered company.

2.0 Filter Materials of Construction

2.1 Filter Media shall be composed of wet laid glass microfibers with low levels of binder material.

2.2 The filter media shall be a continuous layer pleated to the appropriate depth with a double-score to give a box-shaped pleat tip.

2.3 The pleats shall each be separated from one another by a corrugated aluminum separator with hemmed edges.

2.4 The media shall be sealed to the frame on all four sides to eliminate bypass and maintain filter integrity throughout the life of the filter.

2.5 Frame and header components shall be formed out 26 ga. (or thicker) galvanized steel.

3.0 Filter Performance

3.1 Filters shall be available in efficiencies of MERV 11 (60-65%), MERV 13 (80-85%), and MERV 14 (90-95%) when tested in accordance with ASHRAE 52.2:2007 Test Standard.

3.2 Filters shall exhibit initial resistance according to the rated flow rates in the accompanying table.

3.3 Filters shall be capable of withstanding a continuous operating temperature of at least 200°F and relative humidity up to 100%.

3.4 Filters shall have a recommended final resistance of at least 1.5" w.g.

APPLICATION PARAMETERS

Filter Media: Wet Laid Microfiber Paper

Filter Frame: 24 - 26 ga Galvanized Steel

Actual Frame Size: Height and width are 5/8" less than the nominal size. Depth for 12" filter is 11.375" and for the 6" filter is 5.75".

Recommended Final Resistance: 1.5" w.g.

Maximum Temperature: 200°F

*Consult factory for additional sizes and performance data
N/A = Not Applicable

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WHEN CLEAN AIR MATTERS

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