HEGA SERIES 3000 ENGINEERING SPECIFICATION

1.0  General

1.1 Filters shall be Aerosta® HEGA Series 3000 odor removal pleated air filters as manufactured by Filtration Group.

1.2 Filters shall be available at a nominal depth of 12”.

1.3 Filters shall be manufactured by an ISO 9001 registered company.

2.0  Filter Materials of Construction

2.1 Media shall be a carbon-loaded nonwoven consisting of 100% synthetic fibers that do not support microbial growth. Media shall be loaded with at least 500 g/m² of coconut shell activated carbon with at least 1100 m²/g of available surface area and appropriate chemical enhancement. Media shall have no other adhesives that reduce the available surface area of the sorbent.

2.2 Frame shall be headered and of rigid, injection-molded, high impact polystyrene (HIPS) construction. Pleat separators also composed of HIPS shall be inserted at regular intervals on both upstream and downstream sides to ensure pleats remain open to air flow.

2.3 A low off-gassing sealant shall be used to encapsulate the media within the frame to prevent bypass.

2.4 Filters shall be sealed in a non-porous bag to inhibit contamination during shipment and storage.

3.0  Filter Performance

3.1 Filter initial pressure drop shall not exceed 0.40” w.g. when tested at 500 fpm. Filters shall have a recommended final resistance of 1.25” w.g.

3.2 Filters shall demonstrate effectiveness against key contaminants when tested as recommended in ASHRAE 145.2 Test Standard.
   3.2.1 HEGA 653 – Toluene and other VOCs
   3.2.2 HEGA 651 – Formaldehyde and components found in diesel and aircraft exhaust
   3.2.3 HEGA 876 – Acid gases (e.g. H₂S, SO₂, and others)
   3.2.4 HEGA 147 – Ammonia and other alkalines

3.3 Filters shall be rated to withstand a continuous operating temperature of at least 120°F.

3.4 Filters shall not shed significant quantities of dust or particles downstream during normal operation.

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