



# FILTER SPECIFICATION PROCEDURE

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## SERIES 3000 HEGA DUAL-PAK

### Dual Particulate/Molecular Filter

Dual-Pak particulate/molecular filters specified for installation shall be series 2000 as manufactured by Filtration Group, Inc. and shall contain a GEO Pleat pack and a HEGA pleat pack.

The particulate filter (GEO) shall have a patented thermal embossing pleating and glue bead media separation technique that creates a three-dimensional pleat in the media. The molecular filter (HEGA) shall be constructed of a nonwoven media in which sorbent particles are bonded directly to the fiber without any type of adhesive additive. The filter shall be constructed in such a way as to provide essentially dust free operation.

Nominal 24"x24"x12" filters shall have an initial pressure drop (resistance) of not more than 0.825" @ 2000 cfm for single header filters.

### Filter Size

Nominal dimensions for full size single header series 2000 filters shall be 24"x24"x12". Exact filter dimensions are 23.38"x23.38"x11.5

### Frame Enclosure

The frame shall be of rigid, injection-molded high impact polystyrene (HIPS) construction. A urethane sealant shall be used to encapsulate the media of both pleat packs to the filter casing, preventing any bypass. Each frame shall be labeled with size, type, and airflow. The filter shall be sealed into a non-porous bag to inhibit adsorption during shipment and storage.

### Filter Media

The particulate filter shall be made in synthetic and shall be resistant to tears and punctures. The rigid pleat pack shall have no upstream or downstream grids nor pleat supports such as aluminum separators or plastic or metal fingers. The media shall be resistant to moisture and microbial growth. The particulate filter shall be available in MERV 11, 13, and 14 efficiencies.

The molecular filter shall contain a carbon-loaded nonwoven media containing 500 g/m<sup>2</sup> of activated carbon with at least 1100m<sup>2</sup>/g of total surface area. Nominal 24"x24"x12" filters shall contain 58 ft<sup>2</sup> of media surface area. Four different grades of molecular media are available to target specific molecular contaminants:

- Grade 653:** High activity carbon for the removal of General VOCs and ozone
- Grade 651:** Impregnated carbon for the removal of diesel exhaust, including formaldehyde
- Grade 875:** Impregnated carbon for the removal of acid gases
- Grade 147:** Impregnated carbon for the removal of ammonia and amine compounds

The molecular filter shall evidence a minimum initial efficiency of not less than 95% for specified molecular contaminants when laboratory tested under dynamic conditions at 500 fpm. Detailed performance reports are available from manufacturer.