



# FILTER SPECIFICATION PROCEDURE

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## SERIES 2000

### Molecular Filter

Molecular filters specified for installation shall be series 2000 as manufactured by Filtration Group, Inc.

The filter 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 0.40" @ 2000 cfm.

### Filter Size

Nominal dimensions for full size box, single-header, and double-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, galvanized sheet metal construction. A sealant shall be used to encapsulate the media 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 filter shall contain a carbon-loaded nonwoven media containing 500 g/m<sup>2</sup> of activated carbon with at least 1100 m<sup>2</sup>/g of total surface area in the base carbon. Nominal 24"x24"x12" filters shall contain 125 ft<sup>2</sup> of media surface area for box and 104 ft<sup>2</sup> of media surface area for single- and double-header. Four different grades of media are available to target specific contaminants:

- Grade 653:** Enhanced performance high activity carbon for removal of General VOCs
- Grade 651:** Impregnated carbon for removal of reactive organics such as formaldehyde and products of combustion like those found in diesel and aircraft exhaust
- Grade 875:** Impregnated carbon for removal of acid gases
- Grade 147:** Impregnated carbon for removal of ammonia and amine compounds

### Performance

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