

ANGLED ADSORBENT FILTER MEDIA DESIGN IN TANGENTIAL FLOW APPLICATIONS

ABSTRACT

A media design for modular use in an air cleaning or HVAC systems to removes gas phase contaminants. The design allows for a control of gas contaminant removal using variable media length, path length, and contact time to ensure a contained MTZ length and low pressure drop. In one embodiment, the design includes a filter module at an angle to an airflow and an air filter mounted within the filter frame. The filter module may include channels therethrough that are oriented at the optimum angle in relation to the airflow to provide the required dwell time and pressure drop for a given application.

[FIG. 2A]