BPS™ Bonded Activated Carbon Filters for Cooking Odor Removal

During cooking, a mixture of solid, liquid, and gaseous substances is emitted. These substances include water and grease in the liquid and vapor phases, non-condensable gases, and solid organic matter such as smoke and grease particles. The gases are also produced by and during the cooking process.
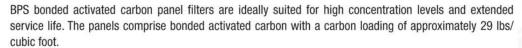
Activated carbon filters are especially suitable for cooking odors due to the complexity and variety of the odors emitted. Typical odor concentrations in restaurant facilities are relatively low and in the parts per billion range. The low concentration and molecular size of these odor compounds make activated carbon filters the most effective technology for their removal over other technologies such as dry scrubbers etc. The performance of activated carbon filters can be further enhanced by impregnating it with the appropriate chemicals to target the removal of specific contaminants. Impregnation with permanganate is recommended for cooking odors as it is effective in removing a broad range of compounds.

BPS™ Activated Carbon Filters

Bonded Particulate Structure panels are used extensively for odor control and volatile organic compound (VOC) removal. With exceptionally low particle shedding characteristics and high performance, the BPS panels require no downstream filters as with loose filled trays or honeycomb style disposable filters. The filters have unmatched cleanliness, are disposable and easy to install, thus providing a huge advantage from both a filtration and maintenance standpoint.

BPS Filters are available in two configurations to suit different concentration level of the odor. The high performance activated carbon has been optimized in both particle size and function to deliver top performance with minimal mass.

BPS bonded activated carbon panel filters are ideally suited for high concentration levels and extended service life. The panels comprise bonded activated carbon with a carbon loading of approximately 29 lbs/cubic foot.

BPS-Lite activated carbon filters are ideally suited for intermittent or low concentration conditions. The panels comprise activated carbon or impregnated carbon pads with carbon loadings of approximately 6 lbs/cubic foot.