

Success by Bioclimatic Air Systems

Bioclimatic's ASHRAE Standard 62 IAQ Based Design Process Permitted Outside Air Reduction to 7.5 CFM per Person Through Air Purification



The Shreveport Convention Center (SCC) has been designed as a multi-purpose facility poised to accommodate a variety of events including, but not limited to: exhibits, trade shows, consumer shows, banquets, receptions, conventions and meetings. The 350,000 square foot facility will provide state of the art meeting facilities for medium sized regional and national conventions & will soon become the largest public building in the City of Shreveport.

Purtle Engineering utilized Bioclimatic Air Systems validated ASHRAE 62 IAQ based software to accurately predict contaminant concentrations in the space versus acceptable limits under all operating conditions. By providing Bioclimatic's bi-polar ionization technology in combination with high efficiency filters, the outside air was reduced from 15 CFM to 7.5 CFM per person. The 50% reduction in outside air reduced the chiller capacity by **1,000** tons. Based on the hours of operation, the annual energy savings have been estimated at **\$140,000.00**. Including the price of the air cleaning equipment, the owner realized a capital cost reduction of **\$850,000**.



Lower capital and operating costs, improved IAQ, possible **LEED** points, IMC acceptance and easy system integration; **Bioclimatic Air Purification** was an easy decision.

Ionization technology has been utilized for over 40 years. Ionization mounted upstream of a cooling coil will travel down the duct cleaning the entire cooling coil while simultaneously controlling mold, bacteria, odors and gases produced from building furnishings and occupants.

UVC Technology + Carbon = Bi-polar Ionization!

Contact your local Bioclimatic representative to learn more about our exciting design process, ASHRAE 62 IAQ based software and extensive standard and custom products.



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