High-Volume Low-Speed Fans & Ventilation Turbines

HVLS Fans Offer "Big" Results

High-Volume Low Speed (HVLS) fans are designed to create air circulation in large open areas of buildings. The circulation of air caused by HVLS fans creates de-stratification, meaning they break down the layers of existing hot and cold air and blend them together. The blended air has a cooling effect on your employees and helps in controlling humidity levels. This creates a comfortable work environment while reducing the energy consumption.

REVERSE OPTION – Especially important in cold weather climates, having a reverse option on your HVLS fan allows you to create an equal distribution of heat from floor to the ceiling dramatically lowering your heating energy needs.

Create a Better Atmosphere

A study at NASA showed that a 5° increase in temperature can decrease productivity by 10%. With an HVLS fan you can control your facility's airflow, regulate the temperature and increase productivity. Because HVLS fans help control humidity levels, they also help prevent the growth and spread of allergens and mold within your facility.

Fast Facts:

- ✓ One HVLS fan can replace up to 50 box fans and cover up to 20,000 square feet of facility space
- ✓ An HVLS fan can save up to 25% in utilities during one year
- ✓ Studies by mechanical efficiency experts prove that HVLS fans are the most energy efficient air circulating fans available

Sources: *HVLS for Large Spaces: The Sustainable Benefits of HVLS (High Volume/Low Speed) Fans, Continuing Education Center, 2009; How Warehouse Ventilation Benefits from High Volume, Low Speed Fans, Contractors Equipment Directory, 2012; Energy Logic, 3 Reasons Why Your Company Needs an HVLS Fan, 2013*

VENTALATION TURBINES

Natural outdoor air infiltration is the simplest method of introducing cooler air into the facility (provided the outdoor air is cooler than existing indoor air temperatures). Using this method, outdoor air should be introduced to the facility at or near the ground levels. Due to the "stack effect" of the air within the facility, the warmer, more buoyant, air will be forced to higher elevations. The warm air is extracted from the facility through the Turbine, while cooler outdoor air is drawn into the facility at the lower elevations (essentially flushing out the excess heat from the facility).

Exhaust Turbines provide natural ventilation to extract excess heat and air impurities such as fumes, pollutants & odors from the facility. Indoor air quality and comfort are critical components of a healthy & productive work environment, and they can be significantly improved through the installation of an exhaust turbine. By outfitting your facility with turbines, you have the ability to reduce indoor ambient temperatures in order to enhance comfort and offset heating/cooling loads.