



HAVE COMFORT WHILE CONSERVING ENERGY

AirMotion Sciences' big fans have been specifically designed to conserve the use of energy resources by moving air more effectively and efficiently than other HVAC solutions. The versatility of our Variable Pitch, Speed, and MultiMode Control capabilities helps our customers create more comfortable facility environments while generating significant energy cost savings. Compared to solar, wind, and other renewable energy solutions, the energy conservation pay back benefits of AltAir HVLS fans begin immediately. Make the world greener - use AirMotion Next Generation HVLS fans for Future Generations.

VPT™ VARIABLE PITCH TECHNOLOGY (VPT™)

The most innovative feature of AltAir HVLS fans is our Variable Pitch Technology (VPT™), which lets you adjust the blade pitch 0°-20° up or down, while the fan is running, to narrow the air flow or more broadly disperse it (what we call AAM - Adjustable Air Movement). When multiple fans are arranged in an array, some may be adjusted to blow air upwards while others blow downwards, creating a more complete wave-like movement of air within a facility (what we call optimal CFM - Complete Facility Movement of air).

Rotatair™ ROTATAIR™ COMPOSITE BLADES

Another advanced feature of our fans is the Rotatair™ blades, which we mold out of composite materials. Their shape is carefully engineered to ensure optimal performance, providing equal effectiveness in moving air up or down. And their strong, yet light-weight composite material allows for higher rotational speeds with lower turbulence for greater efficiency and effectiveness than other types of blades.

MULTIMODE™ MULTIMODE CONTROL CAPABILITY

The fans are operated by a simple, but innovative multi-functional, low voltage Wall Box Control Unit. Efficient use of VFDs ensures a long life of operation, while avoiding electrical noise that can interfere with other equipment and/or result in power unit damage over time. AltAir HVLS fans have 5 basic modes of operation -

MANUAL MODE - The user sets the fan Speed and Pitch Angle. Changes to both Speed and Pitch can be made while the fan is operating. **ECOMODE** - The user controls Speed and Pitch direction (up or down). The fan is programmed to select the most energy efficient Pitch Angle for a given Speed. **DESTRAT MODE** - The fan is programmed to turn on automatically when built-in temperature sensors detect a difference of 15°F between the fan unit and the Wall Box Control Unit, and turn off when the temperature difference is reduced. **AUTOMODE** - The fan comes on and off based on temperature differences, and runs at various speeds depending on how large the temperature difference is. The user only selects Pitch direction (up or down). **EXTERNAL MODE** - There is a provision for connecting External Devices to the Wall Box Control Unit as some users may want to use a Thermostat or Timer to turn the fan on and off.

INNOVATIVE FAN-SIZES

AltAir HVLS fans come in 15', 12', and 9' (avail. 2009) diameters with air movement performance comparable to larger HVLS fans (we calculate that at full pitch and speed our 15' fans can provide up to 33% more CFM than 24' older generation HVLS fans). AltAir sizing allows them to be installed within most typically spaced sprinkler and lighting setups, keeping your local fire marshal and insurance underwriters happy, while also eliminating the annoying and counter-productive strobe lighting effect.

ENERGY EFFICIENT ECO TECHNOLOGY

Our highly energy efficient motors, gear reducers, and Variable Frequency Drives (VFDs) are carefully matched and engineered for efficiency, simplicity, and durability ensuring you energy savings (while leaving a smaller carbon footprint), increased productivity and comfort.

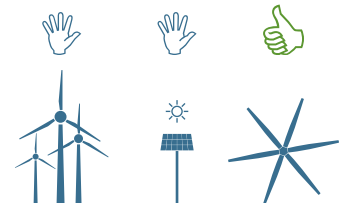
ALTAIR SPECIFICATIONS

Number of blades	6 Rotatair™ Composite blades
Motor	One 1.5hp energy efficient motor
Fan Speed	20 RPM (min) to 120 RPM (max)
Cubic Feet per Minute	Up to 200,000+ (depends on RPM and Pitch Angle)
Variable Pitch (VPT™)	0°-20° up or down controlled by user
Approximate Fan Weight	250 lbs. including mounting apparatus
Power sources	Designed to work with all power sources (including 120V single phase)
Effective Coverage Area	Up to 20,000 sq ft or more (depends on RPM and Pitch Angle)
Recommended Spacing	Up to 90 feet or more between fans (depends on RPM, Pitch Angle, and air movement objectives)
Minimum Height	Top of unit 1 to 3 feet below ceiling, blades must be 10 feet above floor

Variable Frequency Drive controls fan speed (from 20 to 120 RPM)

Simple but innovative multi-functional, low-voltage Wall Box Control Unit with Manual Mode, EcoMode, DeStrat Mode, AutoMode, and External Input Mode versatility.

Using AirMotion AltAir™ Next Generation HVLS Fans is the quickest, most effective, and least expensive way for facilities to go green when compared with other technologies such as wind and solar. Energy savings are significant, can be realized immediately, and when coupled with improvements in comfort and productivity, provide much more rapid payback periods.





AIRMOTION ALTAIR HVLS FANS ENERGY EFFICIENCY AND SAVINGS

BENEFIT	PAYBACK	10 YEAR COST SAVINGS
Cooling Alternative	< 3 Years	> \$ 125,000
Heat De-Stratification	< 1 Year	> \$ 200,000
AC Alternative	< 1 Year	> \$ 400,000

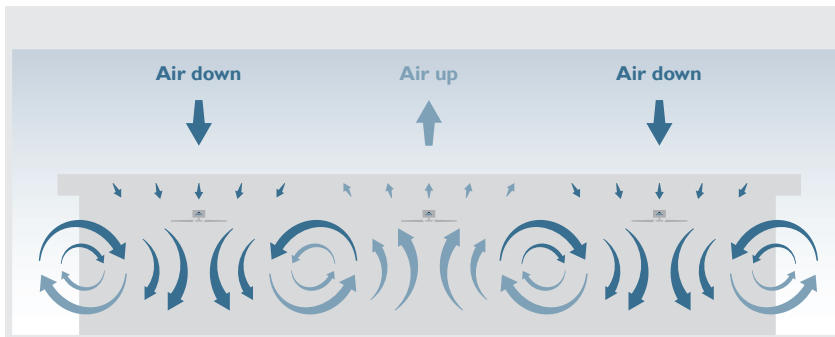
(Estimates for a typical 100,000 sq ft facility)*

*Please see our web site www.airmotionsciences.com for these examples or contact us to learn more, and to evaluate the savings potential at your facility.

AirMotion AltAir™ Next Generation HVLS Fans fit safely within common lighting and sprinkler heads spacing while providing better and more versatile performance than larger fans (at full pitch and speed our 15 foot fans can provide up to 33% more CFM than 24' older generation HVLS fans).



BY USING VPT™ (VARIABLE PITCH TECHNOLOGY) AIRMOTION ALTAIR NEXT GENERATION HVLS FANS PROVIDE YOU OPTIMAL CFM (COMPLETE FACILITY MOVEMENT OF AIR) WITH MULTIPLE FANS ARRANGED IN AN ARRAY AT YOUR FACILITY.



When a number of fans are arranged in an array, one is able to get what we call optimal CFM (Complete Facility Movement of air) by alternating air direction up and down, enabling more complete air mixing than other solutions. Typically, for cooling objectives, we recommend one fan for up to 10,000 sq ft or more. For heat de-stratification and general air mixing objectives, we recommend one fan for up to 20,000 sq ft or more as desired.

ALTAIR CORE BENEFITS

Cooling
Provide evaporative cooling over large areas, efficiently.

Heat De-Stratification
Reduce heater cycling by bringing warm air down from the ceiling and save significant heating costs.

Air Conditioning
Supplement, simplify, and increase effectiveness of A/C solutions and save on cooling costs.

Ventilation and Other
Move and mix large volumes of air for more effective and less costly IAQ, creating healthier facility environments.

ALTAIR APPLICATIONS

- Warehousing & Distribution
 - Manufacturing & Assembly
 - Agriculture
 - Commercial & Retail
 - Aviation
 - Automotive
 - Other Transportation
- And many more...



We Market Our AltAir™ HVLS Fans Globally



INNOVATION • EXPERIENCE • KNOW-HOW

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