



**MACROAIR**  
T E C H N O L O G I E S

FunctionOver **Flash**™

*Manufacturing & Logistics*



# MacroAir *in* Manufacturing & Logistics

## **Engineering Philosophy** *Function over Flash*

Everything we do adheres to this philosophy. With the invention of HVLS technology, founder Walter Boyd was intent on blending auto racing technology with principles of physics (fan laws). Then with a commitment to constantly seek improvements to existing fan designs and working to develop new and innovative products, MacroAir refined the original 10 blade design down to 6 blade with the development of the XL blade. Now with the introduction of the MacroVoltaic, the first and only solar HVLS fan, MacroAir continues to lead the industry. Some companies work to make products that just “Look Good”, MacroAir looks good because we build products that “work”.

## **Benefits Offered By MacroAir Fans**

MacroAir Technologies provides comfort and benefit with the most functional, durable high volume low speed fans in the industry. The large, slow moving air mass produced by HVLS fans circulate air more efficiently than any other type of industrial fan. This air movement keeps facility floors dry, improving safety for employees, as well as forklifts and other equipment. Additionally, the continuous airflow also limits condensation, protecting your product and facility from moisture and mold.

Additionally, MacroAir fans improve air quality and employee comfort. The large, slow moving column of air produced by HVLS fans produces a de-stratification of uneven temperatures at varying levels in a building, effectively eliminating musty and stagnant air, helping to move forklift exhaust immediately, and providing a more comfortable, uniform temperature. In fact, using a MacroAir fan will change the perceived temperature of an employee by 8-15 degrees.

For refrigerated buildings, MacroAir fans de-stratify varying air layers, creating a +/- 1-2 degree temperature differential from floor to ceiling, which improves storage conditions at the top of storage racks and helps to maintain a consistent temperature in all areas of the environment. Additionally, MacroAir fans help reduce the load on the air handlers and improve cycle times.

MacroAir Technologies offer the most functional, durable high volume low speed fans in the industry, offering a 12-year warranty and a commitment to service after the sale. All MacroAir products are made in the USA.

## **eco6 Line**

MacroAir’s eco6 fans are designed to enhance employee comfort by producing a non-turbulent airflow. The eco6 fan is the smallest MacroAir fan and can be mounted either vertically or horizontally on poles, walls or ceilings.

This makes the eco6 ideal for use in areas with a limited amount of space, providing optimal air movement even where ceiling height and/or racks and shelving units prevent the larger overhead HVLS fans from being used.

## **Airvolution Line**

MacroAir specifically designed the Airvolution fans to enhance the comfort of people. By pushing a column of air downward, the size of a fan’s floor jet, or the wall of moving air it creates, is related to its diameter. Too much turbulent air or high air velocities will actually dry out the skin, heating the body instead of cooling it. MacroAir has worked to successfully optimize both the size and the speed of the Airvolution fans, moving the air in such a way as to break up the moisture-saturated boundary layer surrounding the body, accelerating evaporation and producing a cooling effect.

## **MaxAir Line**

Higher air velocities are often required when cooling livestock or where extreme conditions exist, such as extreme heat, moisture, bacteria, mold or mildew. To address the higher air velocities necessary in these circumstances, MacroAir designed the MaxAir fans to offer optimum performance and create a healthier environment.

## **MacroVoltaic Line**

MacroAir has introduced the MacroVoltaic, the first and only solar-powered HVLS fans on the market. With specialized components and a variety of power options, the MacroVoltaic provides comfort while introducing the unparalleled energy savings of solar power.

The MacroVoltaic is available in 16, 18 and 20 foot diameters and includes the HVLS fan with an integrated controller, variable speed remote, optional supplemental auxiliary power supply as well as solar panels with non-penetrating racks and plug-and-play cable assembly and motor disconnect.



“It just moves more wind...”

Paul Vinuelas, Senior Manager of Operations, chegg.com



Diameter in Feet	Cubic Feet Per Minute (Forward)	Cubic Feet Per Minute (Reverse)	Max. Speed Kilowatts (kW) (a)	Typical Industrial Spacing Feet (b)	Max. Effective Area SQ Feet (c)	Maximum RPM	Horsepower	Hangar Weight Lbs (Wickerbill® Standard)
24 MaxAir	376,804	263,763	1.65	110	20,000	65	2	236
24 Airvolution	275,694	192,986	.694	100	18,000	50	1	240
20 MaxAir	237,231	166,062	1.03	100	18,000	70	1.5	217
20 Airvolution	201,805	141,264	.592	95	15,000	60	1	232
18 Airvolution	179,015	125,311	.648	90	15,000	71	1	222
16 Airvolution	158,911	111,238	.693	90	15,000	88	1	208
14 Airvolution	128,010	89,607	.734	70	8,000	104	1	194
12 Airvolution	97,695	68,387	.605	65	7,000	121	1	190
10 Airvolution	83,025	58,118	.559	60	5,000	144	1	181
8 Airvolution	53,623	37,585	.684	55	4,000	206	1	160
Eco6 Airvolution	26,432	(n/a)	.265	(d)	(d)	204	.375	233

- (a) Power Consumption (kW): This is the avg. power consumption of the fan at 59° F and 29.92 in/Hg atmospheric pressure, in dry air.
- (b) Typical Industrial Spacing is measured from center to center of range for most industrial applications; the more floor congestion the closer the spacing.
- (c) Max. Effective Area determined within a circular area on an unobstructed floor under the fan.
- (d) Mount on wall, pole, or ceiling. Air flow; spread is 20 feet and forward throw is 100 feet.

### STANDARD Value-Added, Features, SIX BLADE FAN SERIES

- » Lifetime Warranty on Blades, Hubs, and Frames / 12 Year Service Life Limited Warranty
- » Patent Pending Interlocking Safety System
- » EMI/RFI Wiring Package includes Shielded Cable (not applicable to Single Speed Fans)
- » Remote Control with Remote Cable Wire
- » Control Panel with Lockout/Tagout Disconnect and E-Stop
- » Variable Frequency Drives with Soft-Start Technology and Input Line Filter
- » Safety Cable and Guy Wires
- » Universal Load-Reducing Swivel Ceiling Mount System
- » Glulam or I-Beam Mounting Clamps
- » Hybrid Hub with Keyed H Beam Blade Struts
- » Install Ready (all that's required is power to the control panel)

As part of our ongoing product improvement practices, MacroAir reserves the right to change specifications and design without notice.

FunctionOver **Flash**™

[www.macro-air.com](http://www.macro-air.com)



AIRVOLUTION™ MAXAIR™ MacroVoltaic™ ecoVI™

**MACROAIR**  
TECHNOLOGIES

**1-866-MoveAir** (866-668-3247)

MacroAir Technologies Inc. 794 South Allen Street, San Bernardino, CA 92408

Airvolution™, MaxAir™, Wickerbill™, WhisperFoil™, MacroAir™, Built for Life™, MacroVoltaic™, and the MacroAir Technologies™ (LOGO) are trademarks of MacroAir Technologies Inc.

All rights reserved. © MacroAir Technologies Inc. 2011

  
the greenest fan on earth™

UL LISTED FANS ARE AVAILABLE



Printed in the USA on Recycled Paper

