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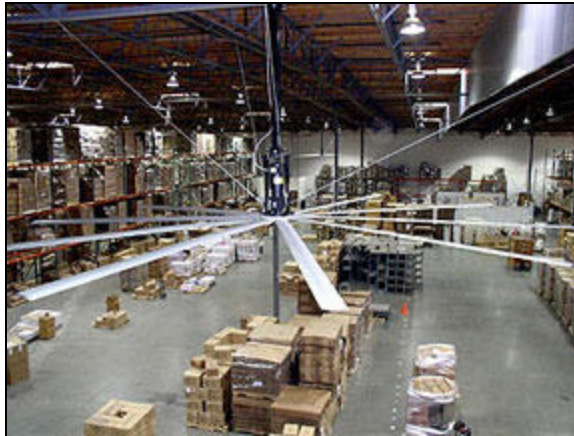
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[High Volume, Low Speed Industrial Fans](#)

## Efficient, effective air movement

How can you justify a ceiling mounted, high volume, low speed warehouse fan?



*Warehouse ceiling fans don't just cool; they de-stratify heat, increase productivity, and lower utility bills & create a remarkably comfortable environment*

### Air movement, not just air cooling

The first thing to realize is that high volume, low speed warehouse fans are air movement systems, not just cooling systems. They move and mix lots of air, and they do it very efficiently. As a result of the masses of air they move they are very effective in aiding cooling, heating (through heat de-stratification) and ventilation.

As a side benefit they mix bad air, including humid air that can cause damage to objects and food products, so they reduce damage and waste due to unwanted moisture. They help eliminate birds and bugs and all the environmental damages they cause in an operation.

Large fans result in productivity increases (productivity is doing more with fewer resources which is a green concept), especially with a comfortable and healthy work/living environment. Their gentle airflow concept helps keep workers noticeably more comfortable. They are also very quiet systems, as opposed to the noise of multiple floor fans.

### Energy savings - they're powered by about what it takes to run three light bulbs

These huge ceiling fans move as much air mass as twenty-five 48" fans that operate with basically the same size motor—in effect, they use 1/25th the energy. In fact, to run them uses as much energy as only about 3 light bulbs.

A larger air mass has much less surface area to move and therefore less surface friction, further reducing energy needed to move the air. With large masses, once the initial inertia is overcome in air movement, the air jet created creates its own momentum that needs very little energy to keep it going. High

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momentum that needs very little energy to keep it going. High volume low speed fans replace many other air movement solutions that would often use a lot of power and energy to be effective. They reduce heating and cooling costs in facilities that use those systems, and create comfort on their own in facilities that don't.

For heat de-stratification: Expect 20% more in heat savings (and probably more in most applications). Industry rule of thumb is about a 3-5% savings for every degree of thermostat reduction. Fan use doesn't cause thermostat reduction; it causes less frequent heater cycling. And high roof facilities, usually with their blasting heaters in the ceilings trying to blow the hot air which naturally rises, often have a 15-degree differential or more from floor to ceiling, which temperature gradients we even out, resulting in the equivalent sensation of thermostat reduction.

For cooling – fans move large masses of air at the right speed for the evaporative cooling effect of 6-8 degrees cooler—with little power required to do it. With A/C fans enable 6-8 degree thermostat increases with 3-5% energy reductions per degree. And while doing so eliminate costly ducting (and related resource to build and install).

### *Return on investment*

HVLS fans pay for themselves quickly. Absent these fans people are spending the money they should be using to buy them. They get more air to more places, more effectively and economically.

### *Fan Size & Number of Fans - how many do you need?*

A 100,000 square foot distribution center or manufacturing facility with a typical layout of racking and equipment can require five to ten fans to enjoy the optimal benefits of HVLS fan systems. The key factors are location, height, size, and density of airflow obstructions. For size selection, bigger is usually better for large areas. Size options allow for custom solutions to unique location challenges. Ceiling heights are ideally more than fifteen feet. Clearance needed above the fans should be at least three to five feet for best airflow; nominal clearances of blades from nearby equipment and structures are recommended. Please consult us for the best HVLS air movement solution for your facility.

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