

# Case Study: OFFICE BUILDING APPLICATION

Air-Row Fan Products Bring Comfort to Office Building Environments, Conserve Energy, Improve Air Quality

## Situation:

Our property manager customer expressed issues that are common for office buildings all across the country: 1) HVAC systems run continually to maintain a comfortable temperature for employees and customers; and 2) there seems to be no improvement in air quality.



Air-Row DA-248 / Air-Row LA-248  
For Suspended Ceilings



## Statistical Results:

Impact of Temperature Differentials in Office Buildings		
	Before Air-Row Fans	After Air-Row Fans
Floor Temperature	50	56
Ceiling Temperature	85	73
Differential	35	16

## Solutions from Air-Row Fans:

What if high ticket technology was able to cycle off at the expense of low-cost technology? And what if that same technology were able to recirculate the air in a building twice every hour? This is the secret of Air-Row Fans' work in office buildings, and it all has to do with recovering, treating, and recirculating "trapped air."

Trapped air is the root of energy waste and poor air quality issues in office buildings. By capturing this trapped air, treating it, and then recirculating it, Air-Row Fans has been able to reduce energy costs and improve air quality. This process of capturing stratified air is the logical first step in the HVAC air movement cycle. It is the step that has been long missing; its addition back into the process brings new efficiency, as large air handlers (heating and cooling) come on only when there is a need for thermal change and cycle off as soon as this thermal change is satisfied.

## Impact on Air Quality:

Our destratification fans completely circulate the air in a room twice an hour. In addition, our negative ion technology removes pollutants as small as 0.01 micron to improve the overall quality of air for employees and customers.

## From Our Customer:

*"The lobby was designed to be open to all floors of our five-story building. It was inviting, but it was also extremely uncomfortable for employees and guests. Air-Row's LA-248 changed that. Once installed, all the trapped heat gathered at the ceiling was put to use. That air was pushed down and recirculated to moderate the temperature below. It totally changed the environment, and the receptionist has never been more comfortable.."*