

# The Air Pear Thermal Equalizer by Airius

**Energy Savings** - 10% to 30% average reduction in heating costs- low cost of operation (35-100Watts) we guarantee a total return on your investment in under 24 months.

**Increases Comfort – More consistent temperature gradient throughout the facility.**

**Improves Indoor Air Quality** – Optional PHI technology removes, odors, bacteria, mold and VOC's  
**Green** - Reduces CO<sup>2</sup> emissions

**Easy to Install** – Simple installation process

### Energy Facts

A decrease of only 10% in industrial energy use would save the equivalent of about 550 million barrels of oil per year, worth about \$10 billion. Just by using the "off the shelf" energy-efficient technologies available today, we could cut the cost of heating, cooling, and lighting our homes and workplaces by up to 80%. (U.S. Dept of Energy.)



The **Air Pear Thermal Equalizer** product line is designed to create a more pleasant working/living environment and to reduce total energy consumption, which results in significant annual cost savings.

### DEFINING THE PROBLEM

First it is important to understand and appreciate the natural phenomena of "temperature gradients." Temperature gradients, or levels, occur when there is minimal air movement within an enclosed building space. The hot air generated by a building's heating system steadily rises to the ceiling. The same holds true for the warm air created during the day by the sun striking a building's roof and southerly facing outer walls. Conversely, cold air sinks to the floor. The net effect is that the ambient temperature at ceiling level is substantially higher than the temperature at floor level.

- How great is this "substantial" differential? If the heating system's thermostat is set to maintain a comfortable environment at floor level, the temperature at ceiling level will typically be between 0.5 and 1.0 degrees Fahrenheit higher per foot of vertical elevation.
- What is the net effect? In a typical open manufacturing or warehouse space (assuming 20' to 50' ceiling heights) the temperature at ceiling level can easily reach over 90 degrees Fahrenheit while the temperature at floor level is barely at comfort level.

Thermal equalization is the obvious answer to the situation.

But, how is "thermal equalization" achieved?

**Air Pear Thermal Equalizers** are specifically designed to efficiently and silently move large quantities of hot ceiling air in a downward direction to the floor. Each unit measures approximately 16" in height and is about 12" in diameter. The external shape is very similar to that of a modern jet engine. The big difference is that the "engine" is mounted so that the exhaust-end points downward. Each unit is designed to "equalize" an area between 1,000 and 1,500 square feet.

Over the short span of a few weeks, the previously wasted heat energy that was at ceiling level (and escaping through the roof) is increasingly transferred into the mass of the floor and onward into the ground beneath it. A gigantic multi-thousand ton "heat battery" is created. Just as it is possible to have "perma-frost" soil, it is also possible to create "perma-warm" soil.

Contact **TLR Energy** to have a personal review of your heating system and find out how you can start to save money...today

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