High Volume Low Speed (HVLS) Fans

NIPSCO ENERGY EFFICIENCY PROGRAMS FOR BUSINESSES

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Smart Air Circulation—Big Savings

Boost comfort, reduce energy waste and improve indoor air quality with High Volume Low Speed (HVLS) fans—engineered to move large volumes of air efficiently and quietly across large spaces. These fans work year-round to support your HVAC systems, improving energy performance and reducing operating costs.

How do they work?

Unlike traditional fans, HVLS fans use long, airfoil-shaped blades to move large volumes of air slowly and evenly. The airflow pushes down to the floor, spreads outward and circulates back up to the ceiling, helping maintain balanced temperatures without drafts. In colder months, reversing the fan direction moves warm air down to occupant level.

Where can they be used?

These fans are an ideal solution for:

- Warehouses and distribution centers
- Manufacturing facilities and plants
- Gymnasiums and sports facilities
- Retail stores and big-box spaces
- Community centers and churches
- Auditoriums, schools and cafeterias
- Agricultural, industrial and aviation facilities

Why invest in them?

HVLS fans are a strategic investment in comfort, efficiency and safety. They eliminate hot and cold spots, reduce condensation risks and support HVAC systems without the need for costly ductwork or portable coolers. Ideal for large spaces, these fans enhance ventilation, improve occupant comfort and contribute to energy efficiency goals—all while lowering operational costs year-round.

Did you know?

A High-Volume Low-Speed (HVLS) fan can replace multiple high-speed fans, delivering noticeable cooling all while using considerably less energy.

CASE STUDY

Better airflow control and reduced energy demand

Incentive earned: $27,357
Total kWh saved: 53,806 kWh
Total therms saved: 19,287 therms

Project overview:
A local RV manufacturer installed five 24-foot HVLS fans to replace a large number of pedestal fans across the plant. Their goal was to improve comfort year-round by circulating warm air in winter and enhancing cooling in summer. The fans were integrated with variable speed controls, allowing the facility to fine-tune airflow and reduce energy usage without over-ventilating. By consolidating ventilation and improving air distribution, the facility achieved better thermal balance and operational flexibility.

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Benefits of High Volume Low Speed (HVLS) Fans

*This is just a shortlist of energy-saving benefits of HVLS fans. To learn more about this measure, contact TRC.**

Energy savings: HVLS fans reduce the burden on HVAC systems by improving air circulation and enabling thermostat adjustments that can lower heating and cooling costs. With fewer high-speed fans needed, facilities may save energy and money over time.

Consistant comfort: These fans eliminate hot and cold zones by continuously mixing air, creating a more uniform temperature from floor to ceiling—especially in tall spaces.

Quite and efficient: HVLS fans are designed to operate at low speeds with minimal noise.

Safer spaces: The slow-moving airflow helps dry wet surfaces, reduce condensation buildup and improve visibility and footing in high-traffic areas like warehouses and hangars.

Zone flexibility: Advanced controls allow users to manage fans by zone, adjusting speed and timing to suit specific areas and occupancy levels without over-ventilating unoccupied spaces.

Sustainability: HVLS fans support energy-efficient building operations, helping projects meet energy efficiency goals and reduce carbon footprints.

Get started saving!

Now that you know more about what to upgrade, visit **portal.trcsavesenergy.com/tradeallysearch** to find an experienced contractor in your area. Have questions? Contact a TRC* Field Engineer near you by visiting **trcsavesenergy.com/contact** or contacting a TRC Program representative by calling **1-800-299-2501** or emailing **NIPSCO.Savings@TRCcompanies.com**

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CASE STUDY

HVLS fans support employee comfort and energy goals

Incentive earned: $18,873
Total therms saved: 18,873 therms

Project overview:
A local manufacturing facility installed nine HVLS fans in one of their plants to improve air circulation and employee comfort. The system helps destratify temperatures year-round, easing HVAC demand, supporting energy-saving goals and provides a comfortable working environment for employees.

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