

RITE-HITE FANS CASE STUDY



JOHNSON LEVEL & TOOL

Tool Manufacturer Keeps Dock Workers Comfortable Year-Round

A globally recognized leader in the hand tool industry, Johnson Level & Tool Manufacturing Company, Inc. manufactures more than 270 types of Johnson brand levels, and distributes nearly 900 other hand tools under the Fuller Tool brand. Its products can be found at numerous outlets across the country. Located in Mequon, WI, Johnson Level & Tool prides itself on a 60-year heritage built on quality and craftsmanship. It also prides itself on its highly efficient loading dock operation, despite temperature extremes often found in the Northern climate .



Employee comfort key

According to Johnson Level & Tool Distribution Manager Mario Cherubini, the loading dock environment can be challenging during winters where single-digit temperatures, sub-zero wind chill factors and fierce winds are the norm, and in the summers high temperatures can reach more than 90° F during July and August. On an average day at Johnson Level & Tool's loading dock, the company processes anywhere from 16 to 20 trailer shipments at its five dock bays. Dock doors are usually open for as long as 20 minutes while loading – and much longer when international shipments are involved, which can make for uncomfortable during the winter months. Located in the center of the warehouse is a 15 foot tall tower heating system that draws in cold air through the bottom, expelling heat from the top, and sending it up to the ceiling. The company installed wall fans to push the air toward

ground level, but the high-speed fans made for windy conditions that created an annoyance and disrupted work. Additionally, the fans didn't equally distribute warm air throughout the 320 foot long. Cherubini decided to install an HVLS fan over the dock doors to better circulate air. The fan helped reduce the wall fan problem, but fell short in addressing the need for better, more consistent air movement.

Out with the old, in with the new

Not satisfied, Cherubini replaced the old HVLS fan with the Revolution™ Fan from Rite-Hite Corporation. One of the first things Cherubini noticed was the pressure it exerted on the parts weighing scale located directly beneath it. "We know we are getting a lot more air movement and it's doing it with fewer blades," he says. The advanced design of the Revolution Fan features four aluminum Propell-Aire™ blades, which moves air more consistently across the whole blade, creating an airflow of more than 360,000 actual cubic feet per minute. That compares with other HVLS fans with six or 10 blades.

Better air circulation in minutes

After the Revolution Fan was installed, it became an instant hit with loading dock employees. "There's much better air movement and we're able to maintain a more consistent temperature throughout the facility. The bottom line, according to Cherubini, is the ability to keep employees comfortable even during the sometimes harsh Wisconsin weather. "We believe that happy employees are productive employees," he says. The Revolution Fan also features a simplified mounting system, which uses universal steel mounting brackets. Other components include a beam clamp, motor housing, stabilization cables and a three-way, motor-to-hub safety connection. When choosing a fan, Cherubini's other major concern was overall quality. The fan is designed with a robust motor and extruded, precision-milled aluminum hub that provides reliable operation with virtually no maintenance. Additionally, the rotationally balanced blade/hub connection utilizes a vibration-absorbing resilient material that reduces stress by 50 to 75 percent, to maximize fan life. With these features, Cherubini's confidence in the quality of the Revolution Fan is high.

RITE•HITE®



REVOLUTION[®]

FROM RITE-HITE FANS

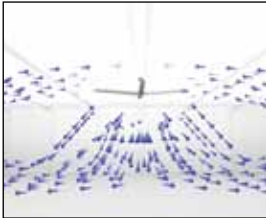
A CHANGE IS IN THE AIR

It's RevolutionAIRy. The original Revolution HVLS fan from Rite-Hite Fans delivers the most air movement of any HVLS fan on the market. The Revolution is today's standard for high-performance, large-space building environments.



VisionAIRy Design

- ▶ Propell-Aire™ custom aluminum blades with Vortex Tips, incorporates tilt, taper and twist to provide consistent airflow across the entire length of the blade
- ▶ Available in 8', 12', 16', 20' & 24' diameters
- ▶ Available in 2 or 4 blade configurations
- ▶ Custom colors and logos available



LegendAIRy Performance

- ▶ Ideal for large buildings with high ceilings
- ▶ Greatest air flow of any HVLS fan on the market
- ▶ High-performance design moves air up to 85' from the fan's center in all directions
- ▶ Uniform air flow eliminates dead air holes



ExtraordinAIRy Construction

- ▶ Extruded, precision-milled aluminum hub and bolt
- ▶ Vibration-reducing material reduces stress to hub by 50% to 75%
- ▶ Rotationally-balanced blade/hub for superior performance
- ▶ Three-way motor-to-hub safety connection
- ▶ Solid design with 40-year track record
- ▶ Stabilizing cables, beam clamp and motor housing



Controls

- ▶ Simple on/off button
- ▶ Adjustable speed control
- ▶ Solid-state, variable-frequency drive
- ▶ Lockout/tagout capable



Fan Commander

- ▶ Remote mounted, touch screen control box for operation of up to 18 Revolution Fans
- ▶ Relay input control for easy on/off interface
- ▶ Optional ethernet port for network access

Where you will find Rite-Hite Fans:

- ▶ Distribution centers
- ▶ Manufacturing facilities
- ▶ Warehouses
- ▶ Athletic facilities
- ▶ Airports
- ▶ Convention centers
- ▶ Health clubs
- ▶ Schools/universities
- ▶ Retail
- ▶ Stadiums
- ▶ Arenas
- ▶ Auto dealers
- ▶ Lobbies/atriums
- ▶ Libraries
- ▶ Religious facilities
- ▶ Hotels
- ▶ Theaters
- ▶ Bars/restaurants
- ▶ Hospitals
- ▶ Hundreds of other applications