

# RITE-HITE FANS CASE STUDY



## A CHANGE IS IN THE "AIR" AT SOUTH FLORIDA FBO

Banyan Air Service is South Florida's First Choice FBO for Business Aviation offering comprehensive aviation services. Some of these include, fuel and ground services, aircraft sales and management, turbine airframe and engine maintenance, avionics installations and service, aircraft parts, and Hangar63, the largest aviation store in the U.S.

Located at the Fort Lauderdale Executive Airport, Banyan Air was looking for a way to improve airflow and keep their employees cool in the hot and humid South Florida climate. After doing some research, and comparing different manufacturer's designs, they decided to install three Revolution High Volume, Low Speed (HVLS) fans from Rite-Hite.



### Employee comfort key

According to Banyan Air Service, Building Maintenance Supervisor, Dan Torres, "Keeping our 25 technicians comfortable is one of our top priorities. Our people are working on some of the most technologically advanced small aircraft on the market today."

Banyan provides 24-hour, red-carpet service to more turbine aircraft every day than any other FBO in the southeast – over 14,000 turbine aircraft in 2007. The hangar doors are kept open all day and the Revolution Fans keep a constant air flow moving throughout the buildings.

The three Revolution Fans are located in two separate service hangars. Two 24' fans are in a 24,000 square foot building and one 24' fan is in an 18,000 square foot building.

### Out with the old, in with the new

Prior to installing the Revolution Fans, Banyan used a variety of floor fans, a total of 24, and three large exhaust fans. "These are all gathering dust now," said Torres.

The advanced design of the Revolution Fan features four aluminum Propell-Aire™ blades, which vary in width and pitch angle along their entire length. That compares with other HVLS fans with six or 10 blades. The unique design moves air more consistently below the entire diameter of the fan, and then horizontally along the building floor, up to 85 feet from the center of the fan in all directions. The shape is impossible to produce with extruded blades used on other HVLS fans.

One additional benefit that the Revolution Fan provides is that it acts as a bird deterrent. "Birds would fly in and nest and make a mess in the hangar and there was no easy way to keep them out. The Revolution has eliminated this problem"

### Local service important

After the fans were installed, there were some minor adjustments that needed to be made. "The local representative, Arbon Equipment, came out and made the necessary adjustments and we have not had a problem since." Torres said. An additional benefit if you are an existing Rite-Hite customer is that planned maintenance and routine check-ups calls can be coordinated in one service call.

### A variety of options for every application

The Revolution Fan from Rite-Hite comes in 8', 12', 16', 20' & 24' diameters and is available in a 2-blade or 4-blade model. For more information, please visit [www.ritehitefans.com](http://www.ritehitefans.com) or contact your local Rite-Hite Representative.





# REVOLUTION<sup>®</sup>

HVLS FANS FROM RITE-HITE<sup>®</sup>

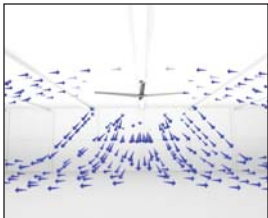
## A CHANGE IS IN THE AIR

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