

# RITE-HITE FANS

HVLS FANS



A REVOLUTION  
IN COST, COMFORT AND DESIGN



**RITE·HITE®**



# A change is in the air

**A fundamental change in building environments. The comfort. The efficiency. The aesthetics. And, above all, the cost. This changes everything. Rite-Hite high volume, low speed fans.**

## **Traditional ways of moving air in a large facility just do not cut it**

High-volume air movement from conventional high-speed ceiling or industrial floor fans is unpleasant and disruptive. Air speeds beyond 1.80 m/s or 2.25 m/s offer little, if any, added cooling benefit.

High-speed fans are expensive to operate and many are required for effective cooling, and they cannot destratify air to keep temperatures consistent from floor to ceiling. Large, high volume, low speed (HVLS) fans offer big benefits over high-speed ceiling or floor fans, by circulating and dispersing air more efficiently and effectively.

## **Increased comfort and productivity**

In summer, air from an HVLS fan gently passes over your employees to keep them cooler, comfortable and productive. In winter, the same HVLS fan pushes air from the ceiling down to the floor to keep employees warmer.

## **Greater energy efficiency and cost savings**

A large Revolution Fan costs just cents an hour to operate and can lower your energy costs by as much as 30%.

# RITE-HITE FANS

## HVLS FANS



### The original Revolution

Delivering the most air movement of any HVLS fan on the market, Rite-Hite Revolution customers have been feeling the benefits all around the world. With diameters up to 7320mm, the Revolution is ideal for large buildings with high ceilings.

### One Revolution deserves another

Introducing the Revolution SP. All of the same benefits of the original Revolution, designed for smaller spaces where aesthetics are important. With standard polished blades or painted blades to blend into your environment, the Revolution SP provides a customized style with performance.

### A Revolution that is spreading

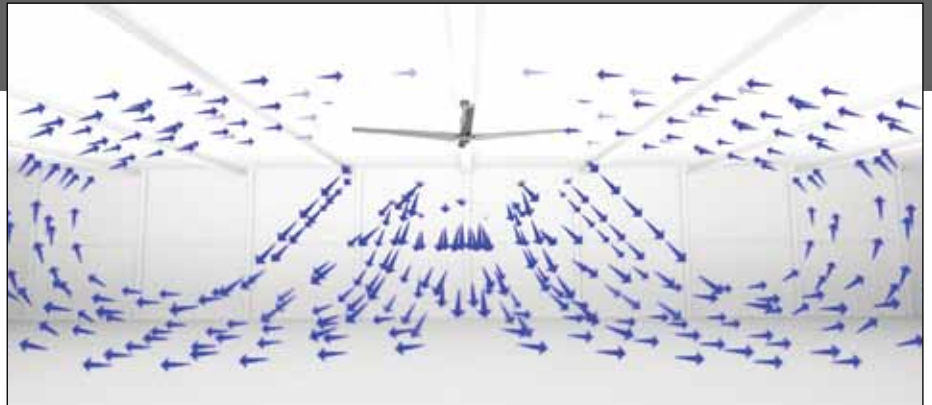
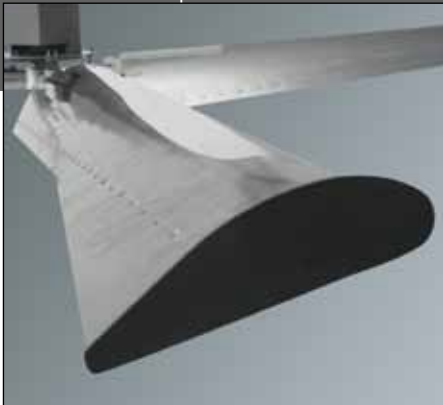
Where you will now find Rite-Hite Revolution Fans:

- ▶ Warehouses
- ▶ Distribution centers
- ▶ Factories
- ▶ Office buildings
- ▶ Schools and universities
- ▶ Retail stores
- ▶ Government buildings
- ▶ Airports
- ▶ Gymnasiums
- ▶ Hotels
- ▶ Commercial buildings

Rite-Hite fans are a simple upgrade for an existing structure. And a smart, economical, green design for a new building. Rite-Hite fans create comfortable, productive environments for work, play, learning, living. What is the best point to bring us in? Whatever point you are at.

# The Revolution that started it all

It started as an idea. And then quickly became a Revolution. Revolution HVLS fans. Today's standard for high-performance building environments.



## VisionAIRy design

- ▶ Propell-Aire™ custom aluminum blade with Vortex Tips, incorporates tilt, taper and twist to provide consistent airflow across the entire length of the blade
- ▶ Available in 2440mm, 3660mm, 4880mm, 6100mm and 7320mm diameters
- ▶ Available in 2 or 4 blade configurations
- ▶ Custom colors and logos available

## LegendAIRy performance

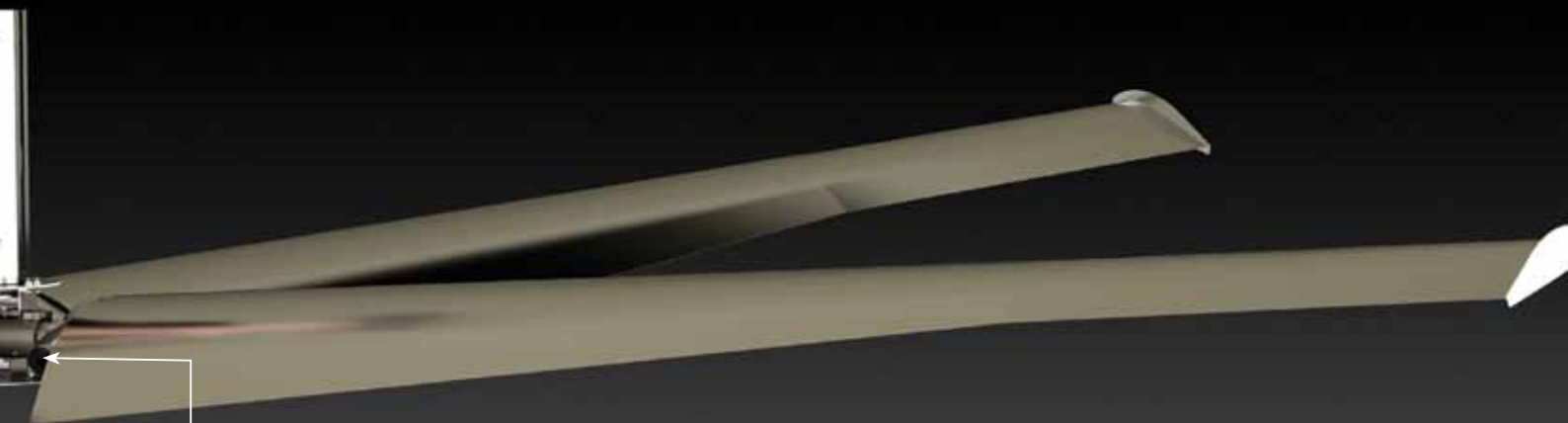
- ▶ Provides the greatest air flow of any HVLS fan on the market
- ▶ High performance design moves air up to 26m from the fan's center in all directions
- ▶ Uniform air flow eliminates dead air holes under the center of the fan
- ▶ Upward blade tilt creates a conical air flow that lifts air off the ground, creating a more comfortable environment

# RITE-HITE FANS

## HVLS FANS

# REVOLUTION<sup>®</sup>

HVLS FANS FROM RITE-HITE



### 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

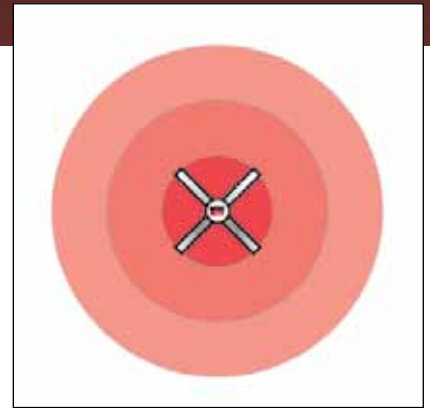
- ▶ Simple on/off switch
- ▶ Adjustable speed control
- ▶ Solid-state, variable-frequency drive
- ▶ Lockout/tagout capable

### 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

# Style with Performance

Yes, you can have it all. Fans that move air in entirely new ways. That take comfort to new highs and costs to new lows. And with a look that is nothing short of Revolutionary. The Revolution SP Fans. Form and function. In perfect balance.



## ContemporAIRy design

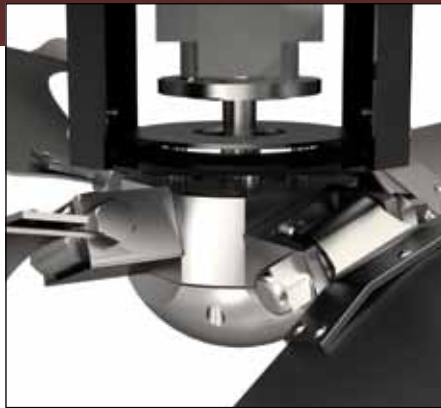
- ▶ Polished aluminum blade with Vortex Tip combines style with performance
- ▶ Designed for smaller spaces where aesthetics are important
- ▶ Available in 2440mm, 3050mm and 3660mm diameters
- ▶ Available in 4 blade configuration
- ▶ Custom colors available

## ComplimentAIRy performance

- ▶ Stylish design moves air up to 15.25m from the fan's center in all directions, providing a comfortable and quiet air flow
- ▶ Supplement existing HVAC systems

# RITE-HITE FANS

## HVLS FANS



### 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



### Controls

- ▶ Simple on/off button
- ▶ Adjustable speed control
- ▶ Operates in forward or reverse
- ▶ Remote mounted solid-state, variable-frequency drive
- ▶ Fits into standard electrical housing

### Fan Commander

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

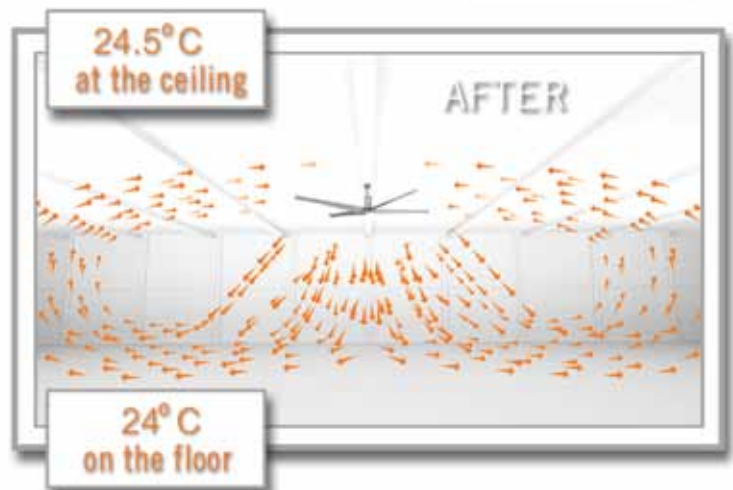
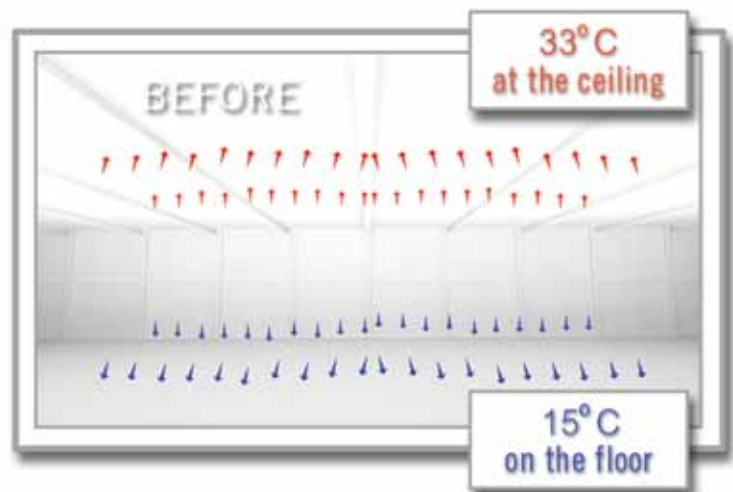
# Cost savings at every turn

## A major energy thief, AIR

- ▶ Uneven temperature zones waste energy and euros
- ▶ Rite-Hite fans make your HVAC systems more efficient
- ▶ Reduce energy consumption by 20% to 30%
- ▶ Eliminate the cold and hot zones, and save money
- ▶ All the comfort, without all the cost

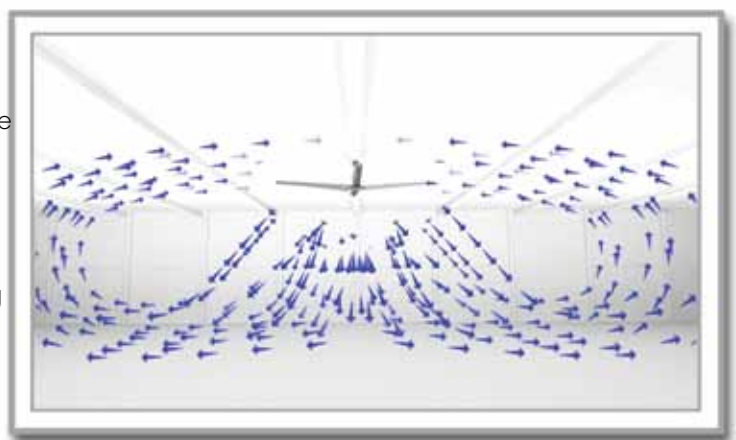
## How we save you money in the winter?

- ▶ Mix warm air from the ceiling with cooler air below, a process called de-stratification
- ▶ The fan gathers air and pushes it down in a conical shape until it reaches the floor
- ▶ The air then flows out horizontally in all directions from under the center of the fan, filling the air column
- ▶ Reduce energy consumption by up to 30%



## How we save you money in the summer?

- ▶ Moving air is more comfortable
- ▶ A 0.90 m/s to 1.35 m/s increase in air speed delivers the equivalent of a 4°C to 6°C decrease in room temperature
- ▶ A Rite-Hite HVLS fan allows you to raise the summer temperature setting 1.5°C to 3°C
- ▶ 7% energy savings for every (°C) you can raise your setting
- ▶ Reduce energy consumption by up to 20%
- ▶ The perfect supplement for your A/C system





# RITE-HITE FANS

## HVLS FANS

### Pushing air down, and costs

Traditional floor or smaller ceiling fans, can cost 5 to 7 times more to run as one HVLS fan. Additional benefits of HVLS fans versus floor or wall-mounted fans include:

- ▶ Safer work environments
  - ▷ Eliminate trip hazards
  - ▷ Reduce potential for eye injuries
  - ▷ Reduce noise
- ▶ Reduce maintenance costs
- ▶ Free up low voltage power outlets

### Better fans for better environments

While the euros saved by reducing your energy costs can provide a real return on investment, additional benefits include:

- ▶ Help eliminate heat stress
- ▶ Reduced condensation on the floors
- ▶ Reduced condensation on products and packaging
- ▶ Improved Indoor Air Quality (IAQ) by dispersing fumes and odors

### Join the Revolution

- ▶ An airplane hangar kept technicians cool and eliminated a problem with birds nesting above airplanes
- ▶ A food distributor was able to eliminate food spoilage by keeping temperatures consistent from floor to ceiling
- ▶ A metal recycling plant was able to eliminate rust from expensive metals
- ▶ A beverage distributor was able to dissipate diesel fumes from their drive-thru application
- ▶ A distribution center in was able to reduce the number of evaporative (swamp) coolers used during the summer by 50%

## How can you use a Revolution?



**REVOLUTION**<sup>®</sup>  
HVLS FANS FROM RITE-HITE

<b>DIAMETERS</b>	2440mm, 3660mm, 4880mm, 6100mm, 7320mm
<b>BLADES</b>	Aluminum
<b>BLADE FINISH</b>	Mill-finish standard, custom colors optional
<b># OF BLADES</b>	2 or 4
<b>AIRFLOW</b>	Up to 202.02 m <sup>3</sup> /s (7320mm diameter, 4 blade)
<b>MOTOR</b>	1.5 kW
<b>VOLTAGES</b>	230, 400
<b>PHASE</b>	1 (230V), 3 (400V)
<b>AMPS</b>	3.55A @ 400V
<b>WATTS</b>	1000 - 1500
<b>FREQUENCY</b>	50 Hz
<b>COVERAGE</b>	Up to 2046 m <sup>2</sup> 26m from the fan's center in all directions
<b>DECIBELS</b>	40 to 63 dBA depending on fan speed (measured 6100mm below and 6100mm from the fan's center)
<b>AIR SPEED</b>	Up to 3.1 m/s at full speed
<b>CONTROLS</b>	Variable speed
<b>MOUNTING HEIGHTS</b>	4575mm to 24400mm (finished floor to bottom of blade)
<b>WEIGHT</b>	136 kg
<b>WARRANTY</b>	3-year parts and 1-year labor warranty 10-year structural integrity warranty Lifetime warranty on workmanship of blades and hub 1-year Customer Satisfaction Money-Back Guarantee



# RITE-HITE FANS

## HVLS FANS



<b>DIAMETERS</b>	2440 mm, 3050 mm, 3660 mm
<b>BLADES</b>	Aluminum
<b>BLADE FINISH</b>	Polished standard, custom colors optional
<b># OF BLADES</b>	4
<b>AIRFLOW</b>	Up to 47.2 m <sup>3</sup> /s (3660 mm diameter, 4 blade)
<b>MOTOR</b>	0.75 kW
<b>VOLTAGES</b>	230
<b>PHASE</b>	1
<b>AMPS</b>	3.2A @ 230V
<b>WATTS</b>	500 - 750
<b>FREQUENCY</b>	50 Hz
<b>COVERAGE</b>	Up to 725 m <sup>2</sup> 15.25m from the fan's center in all directions
<b>DECIBELS</b>	38 to 43 dBA depending on fan speed (measured 6100 mm below and 6100 mm from the fan's center)
<b>AIR SPEED</b>	Up to 1.8 m/s at full speed
<b>CONTROLS</b>	Variable speed
<b>MOUNTING HEIGHTS</b>	3050mm to 9150 mm (finished floor to bottom of blade)
<b>WEIGHT</b>	68 kg
<b>WARRANTY</b>	3-year parts and 1-year labor warranty 10-year structural integrity warranty Lifetime warranty on workmanship of blades and hub 1-year Customer Satisfaction Money-Back Guarantee



## Protect your investment

Rite-Hite continues to be an industry leader in providing solutions for improving safety, increasing productivity and reducing energy costs at industrial and commercial facilities worldwide.

**Minimum ceiling height**

1. The ceiling height must be greater than 10 feet. 2. The ceiling height must be greater than 10 feet. 3. The ceiling height must be greater than 10 feet. 4. The ceiling height must be greater than 10 feet.

Blade Diameter (ft)	10	12	14	16	18	20	22	24	26	28	30
10	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
14	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
16	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
22	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
26	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
28	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Blade Diameter (ft)**

10	12	14	16	18	20	22	24	26	28	30
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
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1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

**Blade Diameter (ft)**

Zone 1 - 4 ft blade fan (10-12 ft)  
 Zone 2 - 12 ft blade fan (12-14 ft)  
 Zone 3 - 16 ft blade fan (14-18 ft)  
 Zone 4 - 20 ft blade fan (18-24 ft)

## Local expertise

Installation of your HVLS fan is critical to its proper operation. Determining the location of your Rite-Hite fans is now even easier using our exclusive Fan Planner. Our local specialists can quickly measure an area and recommend the fan diameter and blade configuration that will help maximize productivity and reduce energy costs. Online stores and catalogs or companies with multi-state "regional" managers may not have the ability to deliver the results you expect and deserve.



Our local representatives are factory trained for installation, troubleshooting, and placement. If you are an existing Rite-Hite customer, planned maintenance and routine check-ups can be coordinated in one service call.

## Manufacturer's support

A global manufacturer with over 40 years of experience, Rite-Hite has a superior track record in supporting applications and installations locally and globally. Every Rite-Hite fan comes with a One-Year Customer Satisfaction Money-Back Guarantee and a 10-Year structural integrity warranty. Because no one else builds a HVLS fan this good.

The best way to experience how a Rite-Hite fan can impact your facility is by installing one. Ask your representative how Rite-Hite's Trial Program can make it easy.

## Consult Rite-Hite for specific fan applications including:

- ▶ 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



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