

# 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 don't cut it**

High-volume air movement from conventional high-speed ceiling or industrial floor fans is unpleasant and disruptive. Air speeds beyond four or five miles per hour offer little, if any, added cooling benefit.

High-speed fans are expensive to operate and many are required for effective cooling, and they can't 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 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 pennies 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 24', 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's spreading

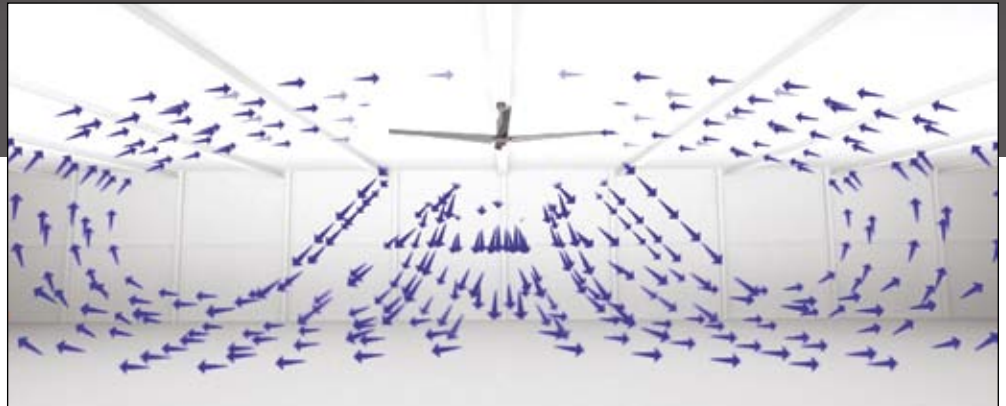
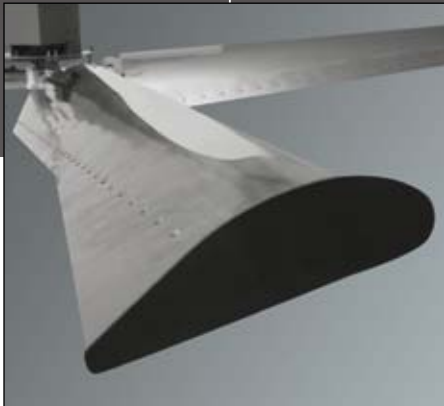
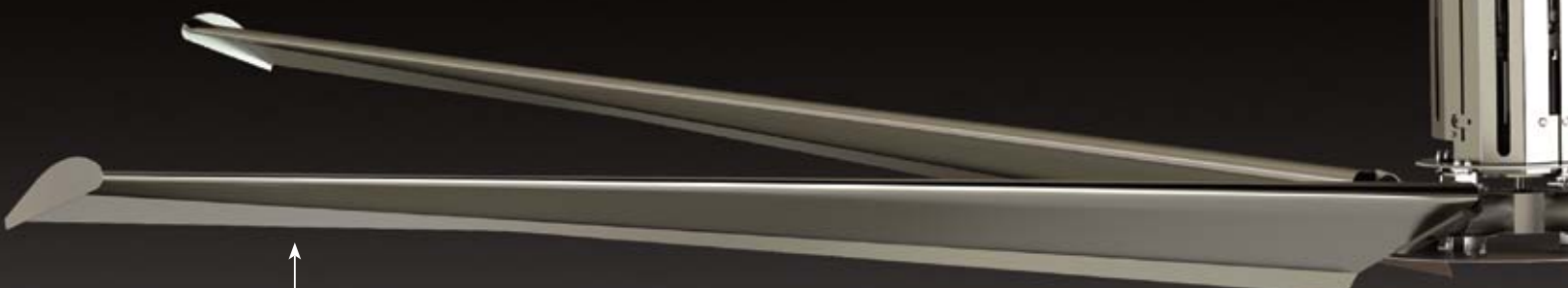
Where you'll now find Rite-Hite Revolution fans:

- ▶ 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's the best point to bring us in? Whatever point you're 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 & 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 & logos available

## LegendAIRy Performance

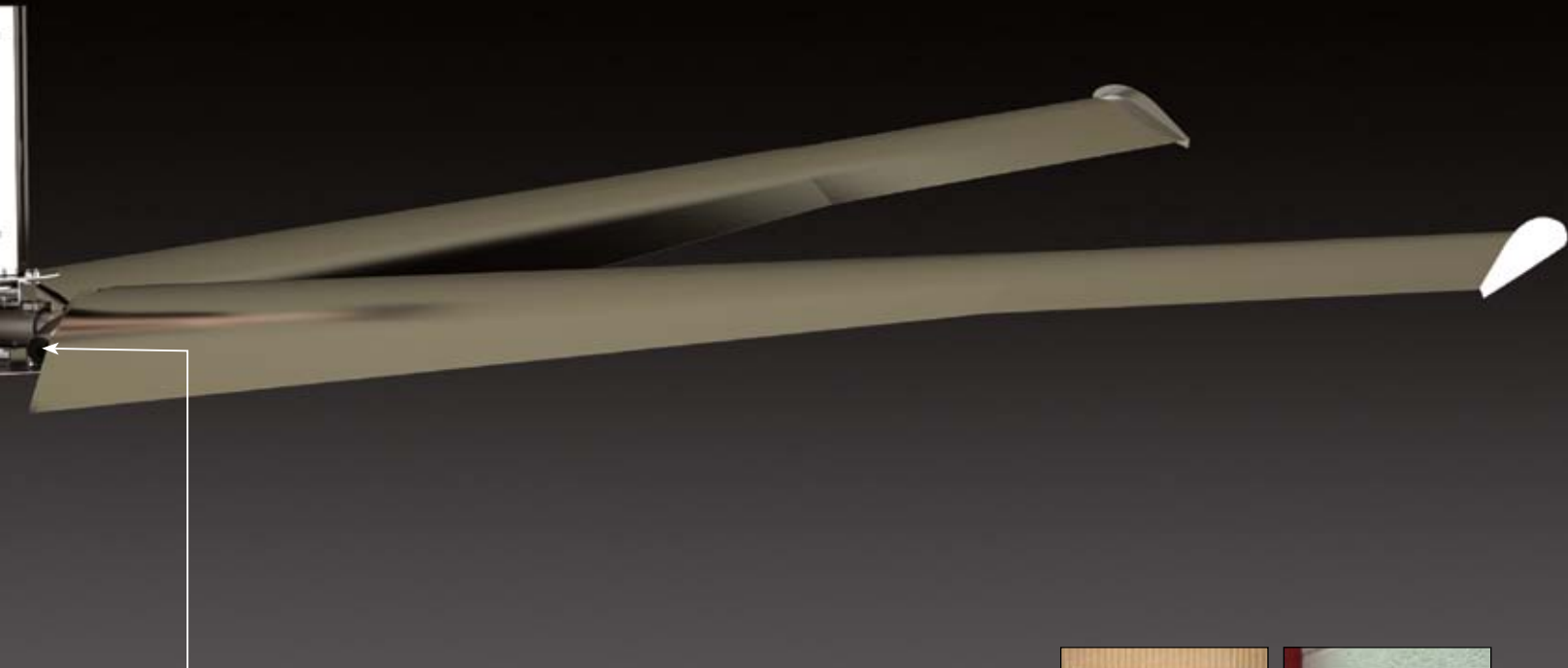
- ▶ Provides the greatest air flow of any HVLS fan on the market
- ▶ High performance design moves air up to 85' from the fan's center in all directions
- ▶ Uniform air flow eliminates dead air holes under the center of the fan
- ▶ Upward blade tilt creates a conical air flow that lifts air off the ground, 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 & motor housing



### Controls

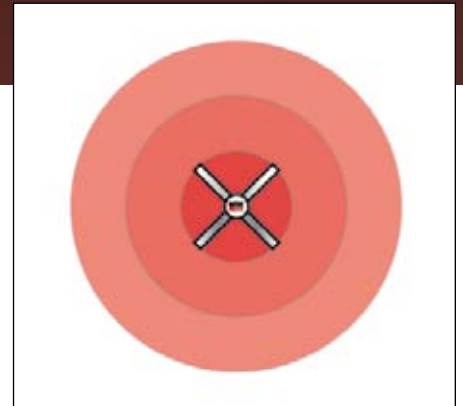
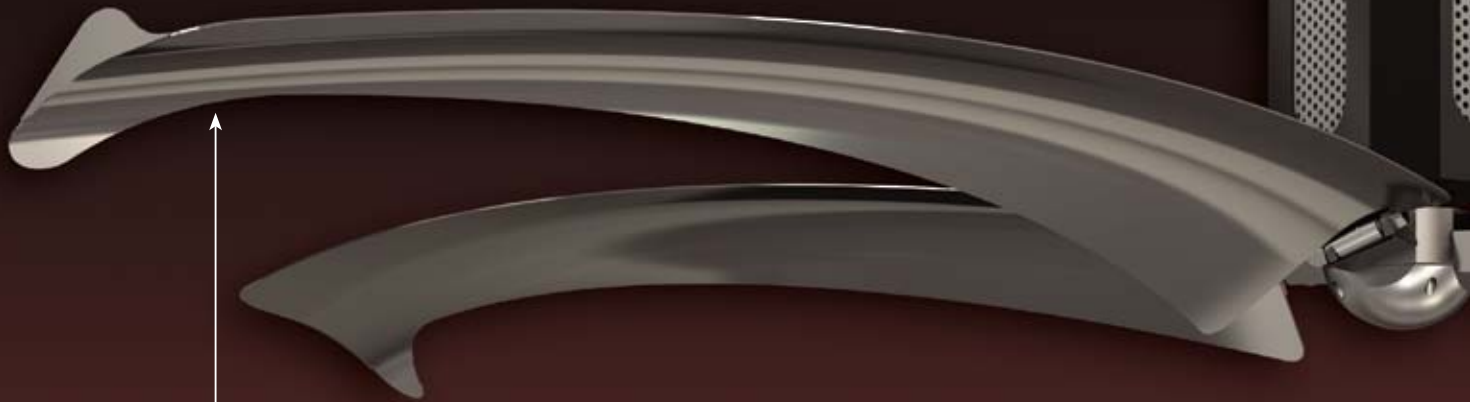
- ▶ Simple on/off switch
- ▶ Adjustable speed control
- ▶ Solid-state, variable-frequency drive
- ▶ Lockout/Tagout capable

### 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's nothing short of Revolutionary. Revolution SP fans. Form and function. In perfect balance.



## ContemporAIRy Design

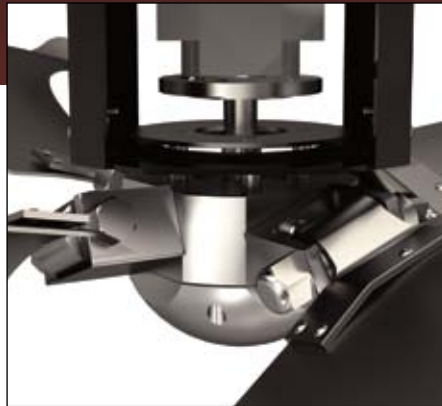
- ▶ Polished aluminum blade with Vortex Tip combines style with performance
- ▶ Available in 8', 10' & 12' diameters
- ▶ Designed for smaller spaces where aesthetics are important
- ▶ Available in 4 blade configuration
- ▶ Custom colors available

## ComplimentAIRy Performance

- ▶ Stylish design moves air up to 50' from the fan's center in all directions, providing a comfortable & quiet air flow
- ▶ Supplement existing HVAC

# 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

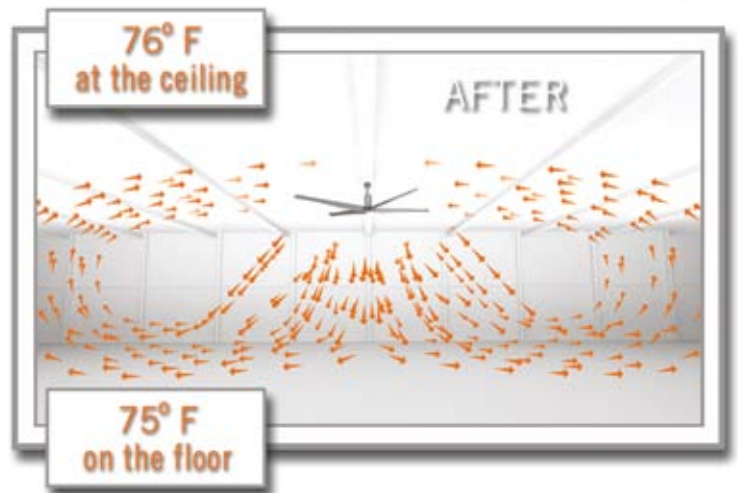
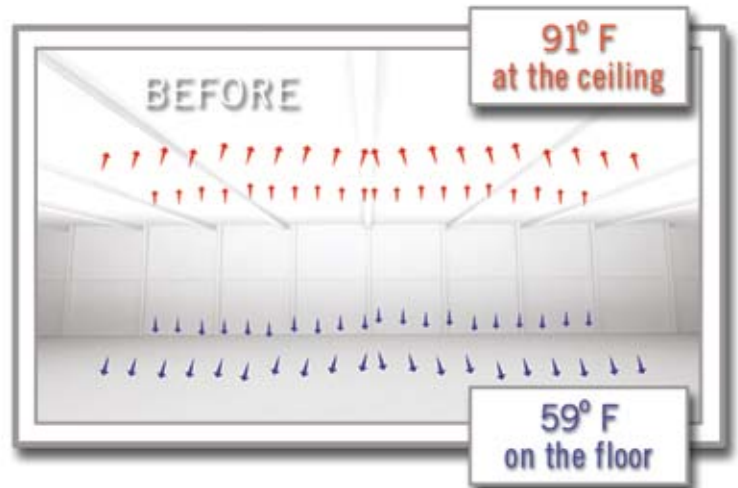
# Cost savings at every turn

## A major energy thief, AIR

- ▶ Uneven temperature zones waste energy and dollars
- ▶ 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

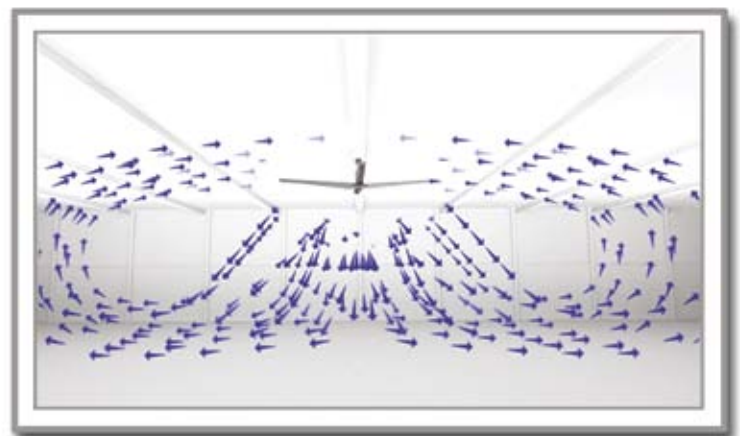
## How we save you money in the winter?

- ▶ 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 2-3 mph increase in air speed delivers the equivalent of a 7-11 degree decrease in room temperature
- ▶ A Rite-Hite HVLS fan allows you to raise the summer temperature setting three, four, even five degrees
- ▶ 4% energy savings for every degree 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 vs. 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 dollars 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 in Florida kept technicians cool and eliminated a problem with birds nesting above airplanes.
- ▶ A food distributor in Wisconsin was able to eliminate food spoilage by keeping temperatures consistent from floor to ceiling.
- ▶ A metal recycling plant in Alabama was able to eliminate rust from expensive metals.
- ▶ A beverage distributor in Minneapolis was able to dissipate diesel fumes from their drive-thru application.
- ▶ A distribution center in Las Vegas 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



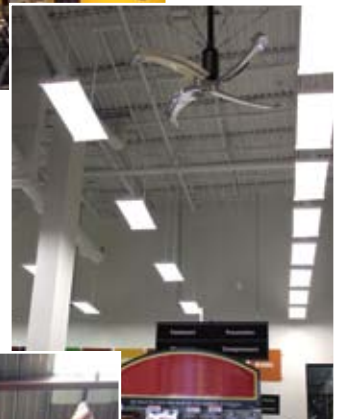
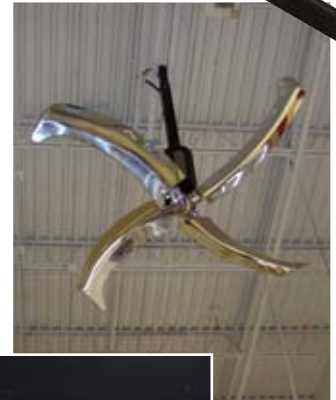
<b>DIAMETERS</b>	8', 12', 16', 20', 24'
<b>BLADES</b>	Aluminum
<b>BLADE FINISH</b>	Mill-finish standard, custom colors optional
<b># OF BLADES</b>	2 or 4
<b>CFM</b>	Up to 420,000 (24' diameter, 4 blade)
<b>MOTOR</b>	2.0 hp
<b>VOLTAGES</b>	230, 400, 480, 575
<b>PHASE</b>	1 or 3
<b>AMPS</b>	3.2A @ 480V
<b>WATTS</b>	1000 - 1500
<b>FREQUENCY</b>	50 or 60 Hz
<b>COVERAGE</b>	Up to 22,000 sq ft 85' from the fan's center in all directions
<b>DECIBELS</b>	40 to 63 dBA depending on fan speed (measured 20' below and 20' from the fan's center)
<b>AIR SPEED</b>	Up to 7 mph at full speed
<b>CONTROLS</b>	Variable speed
<b>MOUNTING HEIGHTS</b>	15' to 80' from finished floor to bottom of blade
<b>WEIGHT</b>	300 lbs
<b>WARRANTY</b>	3-year parts & 1-year labor warranty 10-year structural integrity warranty 1-year customer satisfaction money-back guarantee

# RITE-HITE FANS

## HVLS FANS



<b>DIAMETERS</b>	8', 10', 12'
<b>BLADES</b>	Aluminum
<b>BLADE FINISH</b>	Polished standard, custom colors optional
<b># OF BLADES</b>	4
<b>CFM</b>	Up to 100,000 (12' diameter, 4 blade)
<b>MOTOR</b>	1.0 hp
<b>VOLTAGES</b>	120, 230, 400, 480, 575
<b>PHASE</b>	1 or 3
<b>AMPS</b>	3.2A @ 230V
<b>WATTS</b>	500 - 750
<b>FREQUENCY</b>	50 or 60 Hz
<b>COVERAGE</b>	Up to 7,800 sq ft 50' from the fan's center in all directions
<b>DECIBELS</b>	38 to 43 dBA depending on fan speed (measured 20' below and 20' from the fan's center)
<b>AIR SPEED</b>	Up to 4 mph at full speed
<b>CONTROLS</b>	Variable speed
<b>MOUNTING HEIGHTS</b>	10' to 30' from finished floor to bottom of blade
<b>WEIGHT</b>	150 lbs
<b>WARRANTY</b>	3-year parts & 1-year labor warranty 10-year structural integrity warranty 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.

**Blower Catalog**

\* These units are factory tested. Please consult the fan manual for a maximum of 3 miles per hour of the highest winds. For maximum air flow consult the distributor or call 800-441-4444.

**14" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	0.25	150	0.38	200	0.51	250	0.64
300	1.0	400	1.33	500	1.67	600	2.00
800	3.33	1000	4.44	1200	5.56	1400	6.67
1600	11.11	2000	14.81	2400	18.52	2800	22.22
3200	44.44	4000	56.52	4800	70.66	5600	84.80

**16" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	0.33	150	0.50	200	0.67	250	0.83
300	1.00	400	1.33	500	1.67	600	2.00
800	3.33	1000	4.44	1200	5.56	1400	6.67
1600	11.11	2000	14.81	2400	18.52	2800	22.22
3200	44.44	4000	56.52	4800	70.66	5600	84.80

**18" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	0.44	150	0.67	200	0.89	250	1.11
300	1.33	400	1.78	500	2.22	600	2.67
800	4.44	1000	5.83	1200	7.22	1400	8.61
1600	17.78	2000	23.33	2400	28.89	2800	34.44
3200	71.11	4000	91.11	4800	111.11	5600	131.11

**20" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	0.56	150	0.83	200	1.11	250	1.39
300	1.67	400	2.22	500	2.78	600	3.33
800	5.56	1000	7.22	1200	8.89	1400	10.56
1600	22.22	2000	28.89	2400	35.56	2800	42.22
3200	88.89	4000	113.33	4800	137.78	5600	162.22

**24" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	0.78	150	1.11	200	1.48	250	1.85
300	2.33	400	3.11	500	3.89	600	4.67
800	7.22	1000	9.44	1200	11.67	1400	13.89
1600	28.89	2000	37.78	2400	46.67	2800	55.56
3200	113.33	4000	148.15	4800	182.78	5600	217.39

**28" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	1.00	150	1.50	200	2.00	250	2.50
300	3.00	400	4.00	500	5.00	600	6.00
800	10.00	1000	13.33	1200	16.67	1400	20.00
1600	40.00	2000	53.33	2400	66.67	2800	80.00
3200	160.00	4000	213.33	4800	266.67	5600	320.00

**32" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	1.33	150	2.00	200	2.67	250	3.33
300	4.00	400	5.33	500	6.67	600	8.00
800	13.33	1000	17.78	1200	22.22	1400	26.67
1600	53.33	2000	70.67	2400	88.89	2800	106.67
3200	213.33	4000	281.33	4800	351.11	5600	420.00

**36" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	1.67	150	2.50	200	3.33	250	4.17
300	5.00	400	6.67	500	8.33	600	10.00
800	16.67	1000	22.22	1200	27.78	1400	33.33
1600	66.67	2000	88.89	2400	111.11	2800	133.33
3200	266.67	4000	355.56	4800	444.44	5600	533.33

**40" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	2.00	150	3.00	200	4.00	250	5.00
300	6.00	400	8.00	500	10.67	600	13.33
800	20.00	1000	26.67	1200	33.33	1400	40.00
1600	80.00	2000	106.67	2400	133.33	2800	160.00
3200	320.00	4000	426.67	4800	533.33	5600	640.00

**44" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	2.67	150	4.00	200	5.33	250	6.67
300	8.00	400	10.67	500	13.33	600	16.00
800	26.67	1000	35.56	1200	44.44	1400	53.33
1600	106.67	2000	141.11	2400	177.78	2800	213.33
3200	426.67	4000	564.44	4800	711.11	5600	880.00

**48" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	3.33	150	5.00	200	6.67	250	8.33
300	10.00	400	13.33	500	17.78	600	22.22
800	33.33	1000	44.44	1200	57.78	1400	70.67
1600	133.33	2000	177.78	2400	222.22	2800	277.78
3200	533.33	4000	711.11	4800	888.89	5600	1111.11

**52" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	4.00	150	6.00	200	8.00	250	10.00
300	12.00	400	16.00	500	21.33	600	26.67
800	40.00	1000	53.33	1200	70.67	1400	88.00
1600	160.00	2000	213.33	2400	280.00	2800	351.11
3200	640.00	4000	853.33	4800	1120.00	5600	1400.00

**56" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	5.00	150	7.50	200	10.00	250	12.50
300	15.00	400	20.00	500	26.67	600	33.33
800	50.00	1000	66.67	1200	88.89	1400	111.11
1600	200.00	2000	266.67	2400	355.56	2800	444.44
3200	800.00	4000	1066.67	4800	1411.11	5600	1777.78

**60" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	6.00	150	9.00	200	12.00	250	15.00
300	18.00	400	27.00	500	36.00	600	45.00
800	60.00	1000	81.00	1200	108.00	1400	135.00
1600	240.00	2000	324.00	2400	432.00	2800	540.00
3200	960.00	4000	1296.00	4800	1728.00	5600	2160.00

**64" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	7.50	150	11.25	200	15.00	250	18.75
300	22.50	400	33.75	500	45.00	600	56.25
800	75.00	1000	112.50	1200	150.00	1400	187.50
1600	300.00	2000	412.50	2400	540.00	2800	675.00
3200	1200.00	4000	1650.00	4800	2160.00	5600	2700.00

**68" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	9.00	150	13.50	200	18.00	250	22.50
300	27.00	400	40.50	500	54.00	600	67.50
800	81.00	1000	121.50	1200	162.00	1400	202.50
1600	324.00	2000	442.50	2400	588.00	2800	731.25
3200	1296.00	4000	1770.00	4800	2352.00	5600	2925.00

**72" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	10.50	150	15.75	200	21.00	250	26.25
300	31.50	400	47.25	500	63.00	600	78.75
800	94.50	1000	141.75	1200	189.00	1400	236.25
1600	378.00	2000	517.50	2400	696.00	2800	873.75
3200	1512.00	4000	2070.00	4800	2772.00	5600	3495.00

**76" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	12.00	150	18.00	200	24.00	250	30.00
300	36.00	400	54.00	500	72.00	600	90.00
800	108.00	1000	162.00	1200	216.00	1400	270.00
1600	432.00	2000	648.00	2400	864.00	2800	1080.00
3200	1728.00	4000	2592.00	4800	3456.00	5600	4320.00

**78" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	13.50	150	20.25	200	27.00	250	33.75
300	40.50	400	60.75	500	81.00	600	101.25
800	121.50	1000	182.25	1200	243.00	1400	303.75
1600	486.00	2000	728.25	2400	972.00	2800	1215.00
3200	1944.00	4000	2910.00	4800	3888.00	5600	4860.00

**80" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	15.00	150	22.50	200	30.00	250	37.50
300	45.00	400	67.50	500	90.00	600	112.50
800	135.00	1000	202.50	1200	270.00	1400	337.50
1600	540.00	2000	810.00	2400	1080.00	2800	1350.00
3200	2160.00	4000	3240.00	4800	4320.00	5600	5400.00

**84" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	16.50	150	24.75	200	33.00	250	41.25
300	50.25	400	74.25	500	99.00	600	123.75
800	150.75	1000	221.25	1200	297.00	1400	371.25
1600	603.00	2000	885.00	2400	1188.00	2800	1485.00
3200	2412.00	4000	3540.00	4800	4752.00	5600	5940.00

**88" Blade HVL Fan**

CFM	HP	CFM	HP	CFM	HP	CFM	HP
100	18.00	150	27.00	200	36.00	250	45.00
300	54.00	400	81.00	500	108.00	600	135.00
800	162.00	1000	243.00	1200	324.00	1400	405.00
1600	648.00	2000	972.00	2400	1296.00	2800	