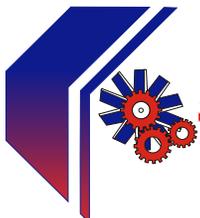


HURRICANE™ Turbine

“FREE VENTILATION”

15 YEAR WARRANTY

- No Electrical Operating Costs
- No Wiring Costs
- Designed to withstand adverse weather
- Low Maintenance
- Low Structural Impact
- Quiet Operation



YOUR INDUSTRIAL VENTILATION EQUIPMENT DISTRIBUTOR

***Envira-North* SYSTEMS LTD.**

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INDUSTRIAL WIND DRIVEN TURBINE VENTILATOR



How Can Ventilation Be Free?

Are you aware of the hidden costs of exhaust fans?

The immediate reaction by many facility owners to improve ventilation is to add some exhaust fans. Exhaust fans will remove air to be sure, but when you stop to think about the cost of exhaust fans is it really an effective approach?

First you have the fan equipment cost, then you have structural modification costs to handle the heavy weight of the fan, then you have motor starter costs, wiring costs, electrical operating costs and finally you have frequent maintenance costs.

What if we told you that you could ventilate your plant for free!

It's true! Most buildings are creating a natural gravity effect where the hot air is rising from the floor to the roof creating a positive pressure at the upper levels and negative pressure at the lower levels. Gravity or stack effect is caused by convection (hot air rises), the temperature difference from inside the building as compared to outside of the building and the height of the building. If the correct gravity opening is installed at the roof, the positive pressure caused by stack effect will enable the heat to leave the building. As the heat leaves the building through the roof opening, the air at the floor will be displaced by cooler air entering the building from lower levels.

Why pay for ventilation when Mother Nature will do the work for you!

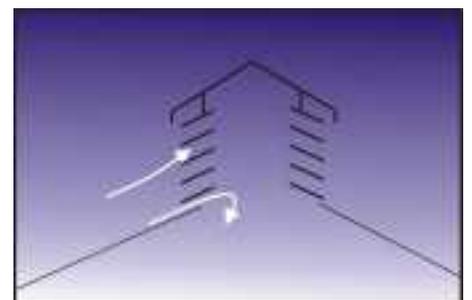
A properly designed gravity opening will provide ventilation due to stack effect, but by harnessing the wind, ventilation can be improved by 600% or more! Antiquated "doghouse" style gravity openings are susceptible to wind direction and can actually cause downdraft shutting off exhaust ventilation. With the Hurricane wind driven turbine ventilator, the wind strikes the vertical vanes causing the head to rotate. The rotating action generates a powerful area of low pressure causing additional air to be exhausted from the building.

Why should you consider a Hurricane™ Turbine Ventilator?

- ✎ Eliminates all wiring, starter, electrical & maintenance costs.
- ✎ The Hurricane weighs only 63 lbs compared to a 400 lb fan, eliminating structural modification costs and ease of installation.
- ✎ The Hurricane is very quiet and the rotating action provides employees with visual knowledge that the unit is operating.
- ✎ The Hurricane is fabricated from corrosion resistant aluminum for long life.
- ✎ The Hurricane is the largest of its type moving maximum airflow.
- ✎ A high quality bearing & shaft assembly provides a long trouble free life for the Hurricane.
- ✎ The Vari-Pitch Flue Section field rotates to fit virtually any roof pitch and the flashing base eases installation.
- ✎ The Hurricane has been independently tested assuring airflow levels, no water penetration and no structural damage up to 123 MPH wind speeds.
- ✎ The Hurricane has a 15 year warranty compared to the one year warranty provided for most exhaust fans.



The Hurricane harnesses the wind



Old Fashion "dog houses" are affected negatively by wind

Hurricane™ Turbine Cost Comparison

The average cost of a Hurricane™ Turbine is **70% less** than conventional fan ventilation!

Cost Comparison Chart: (4) 36" Hurricane™ compared to (2) 36" Upblast Axial Fans

Design criteria: To provide 6 air changes per hour for a 100' wide x 100' long x 26' high general manufacturing plant. Total CFM required is 26,000 CFM. Save 44% after the first year, 54% after 5 years, 68% after 10 years and 70% after 15 years of operation!

Axial Fan Costs (26,000 CFM Total)

(2) 36" dia. 1.5 hp Upblast Fans	\$ 2,600.00
(2) Sloped Roof Curbs	\$ 450.00
Starters/Pushbutton Stations	\$ 4,200.00
Conduit, Wire	
Structural Building Changes: may be required	
Install Framing/Curb/Fan	\$ 1,900.00
Install Electrical	\$ 2,000.00
1 Years Electrical Consumption	\$ 1,200.00
1 Years Maintenance - 2 hours	\$ 100.00
	\$12,450.00

"OUT OF WARRANTY AFTER ONE YEAR"

2nd Year Cost (Electrical/Maintenance)	\$ 1,300.00
3rd Year Cost (Electrical/Maintenance)	\$ 1,300.00
4th Year Cost (Electrical/Maintenance)	\$ 1,300.00
5th Year Cost (Electrical/Maintenance)	\$ 1,300.00
Total Cost for 5 Years	\$17,650.00

"AFTER 10 YEARS OF SERVICE"

New Fans + Yearly Cost (5 yrs)	\$ 9,500.00
Total Cost After 10 Years	\$27,150.00

"AFTER 15 YEARS"

Yearly Cost (5 yrs)	\$ 6,500.00
Total Cost After 15 Years	\$33,650.00

Hurricane™ Turbine Costs

(9MPH wind = 26,000 CFM Total)

(4) 36" dia. Hurricane Turbines	\$ 5,860.00
(4) Sloped Roof Curbs	\$ 900.00
No Starters/Pushbutton Stations	\$ 0.00
Conduit or Wire Required	
No Structural Changes Required	\$ 0.00
Install Framing/Curb	\$ 2,600.00
No Electrical Required	\$ 0.00
No Electrical Usage	\$ 0.00
1 Years maintenance - 2 hours	\$ 100.00
	\$ 9,460.00

"WARRANTY CONTINUES FOR 14 MORE YEARS"

2nd Year Cost (Maintenance)	\$ 100.00
3rd Year Cost (Maintenance)	\$ 100.00
4th Year Cost (Maintenance)	\$ 100.00
5th Year Cost (Maintenance)	\$ 100.00
Total Cost for 5 Years	\$ 9,860.00

AFTER 10 YEARS OF SERVICE;

"WARRANTY CONTINUES FOR 5 MORE YEARS"

Yearly Cost (Maintenance for 5 years)	\$ 500.00
Total Cost After 10 Years	\$10,360.00

"WARRANTY IS FINISHED"

Yearly Cost (Maintenance for 5 years)	\$ 500.00
Total Cost After 15 Years	\$10,860.00

Hurricane™ Turbine Ventilator

PERFORMANCE TABLE								
HURRICANE			EXHAUST CAPACITY					
Ventilator Model	Size		6 km/h or 3.7 mph		12 km/h or 7.5 mph		16 km/h or 9.9 mph	
	Inches	mm	L/s	cfm	L/s	cfm	L/s	cfm
H300	12"	300mm	270	572	480	1017	620	1314
H600	24"	600mm	620	1314	1104	2339	1420	3009
H900	36"	900mm	1560	3305	2700	5721	3460	7331

HURRICANE™ Success Stories



Application: Automotive Parts Manufacturer

16 Hurricane units are utilized to evacuate heat, moisture and welding emissions generated by the automotive parts manufacturing process. “The hurricane units vastly improved the air quality and working environment for the employees”.

Application: Steel Manufacturing and Powder Coating

44 Hurricane units are utilized to provide the desired air change rate. Air temperature and air quality were significantly improved.



Application: Distribution Centre

34 Hurricane units were installed on this existing facility to improve the environment for employees. The client was very satisfied with the results and is considering installing Hurricanes on other distribution centres.

Application: Toyota

425 Hurricane units were installed to provide adequate smoke relief ventilation. Our customer is more than happy with the end results and will have no hesitation in recommending the Hurricane™ Turbine Ventilator.

