

W. F. Hirschman Co., Inc.

Main Office: BUFFALO, N. Y.

Works: Le ROY, N. Y.

NEW YORK, N. Y., 202 East 44th St.

Boston, Mass., 143 Federal St.

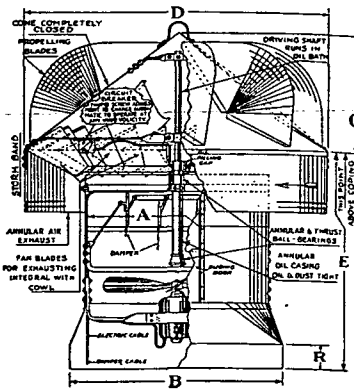
MANUFACTURERS ROOF VENTILATORS AND ELECTRIC CONTROLS

Principle of Operation of Wind-Electric Ventilator Full Automatic—When the wind is blowing sufficiently to remove the desired amount of air from the building being ventilated, the electric motor is still. Instantly, when the wind turbine moves below a previously determined number of revolutions, the electric motor starts automatically and carries the load. The entire apparatus is noiseless.

Special Advantages—Besides the regular automatic operation the motor may also be so connected as to give a maximum exhaust capacity (running full speed) by manual control.

The Effico Wind-Electric Ventilator, Full Automatic—Recommended for those installations which require a definite minimum exhaust at all times or which may require an unusually heavy exhaust at intermittent periods.

This apparatus is adjustable to exhaust various quantities of air within the limits of given sizes and is regularly supplied at capacities of 5 miles per hour wind and 10 deg. temperature difference rating. *The Wind-Electric will exhaust minimum volume regardless of temperature difference or wind velocity.* Other capacity can be supplied and the ventilator is adjustable to any constant capacity after installation.



Pat. May 20, 1922; March 20, 1928; August 21, 1928.
Detail of Effico Wind-Electric Rotary Ball Bearing
Ventilator Pull Automatic

NOTE.—Details of Wind Driven (only) Ventilator are Identical with Exception of Motor Unit.

DIMENSIONS AND CAPACITIES OF EFFICO WIND-ELECTRIC AND WIND DRIVEN VENTILATORS

Nominal Ventilator Size in Inches	Dimensions in Inches (See Diagram)					Thickness of Metal				Motor H.P.	Cubic feet of air exhausted per minute at 0-5 miles per hour wind velocity		
	A-Actual Size of Ventilator	B-Base	C-Height of Blades	D-Diam. of Storm Band	E-Height of Band	Gage G.I.		Oz. Copper			Temperature difference in degrees Fahr. between air in building and outside air		
						Cowl	Base	Cowl	Base				
12	14	20	8	21 3/4	32	24	22	14	16	1/30	440	515	560
18	20	28	10	24 48/2	32	24	22	14	16		840	950	990
24	25	38	14	30	37	24	20	16	18		1600	1780	1900
30	31	40	14	30	37	24	20	18	20	1.6	2300	2690	2900
36	37	44	18	60	40	22	18	18	24		3400	3810	4100
42	43	50	22	68	46	22	18	20	24		4500	5010	5500
48	49	56	24	76	46	22	18	20	24	1/4	5900	6700	7400
54	55	62	24	86	46	22	18	24	24		7300	8450	9500
60	60	66	24	98	50	20	16	24	24		9300	10600	11900
66	67	80	30	114	50	20	16	24	24	1/2	13000	14600	16000
72	72	84	30	114	50	20	16	24	32		18000	21000	23000
96	96	116	45	153	50	20	16	24	32		22500	27000	29000

R dimension—5 in. on all sizes.

C dimension should be above coping.



*Efficco Rotary Ball Bearing Ventilator Installation, Wind Driven (only)
The Efficco Wind Electric Also Has the Same Artistic Lines and Pleasing
Appearance. Lowest in Height of Rotary Ventilators by Over 50 per cent
Average.*

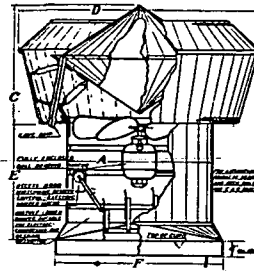
"Effico" Wind-Driven Roof Ventilators

The Efficco Ventilator consists of a wind-driven head to which suction blades are permanently connected (on the underside) making an efficient exhaust fan. Rotation of the head creates an exhaust suction in the throat of the ventilator. There are no moving parts.

W. F. Hirschman Co., Inc.

F Fan Ventilator—Non-Automatic

For our Effico Ventilator see preceding page



F Electric Ventilator Non-Automatic (Patented

CAPACITIES OF HIRSCHMAN F VENTILATOR

Size of Stack Inches	Fan Speed R.P.M.	Horse-Power	Capacities—C.F.M. Static Pressure in Inches of Water				Type of Motor	O Quiet X Silent
			1/8" or Less	1/4"	3/8"	1/2"		
12	1750	1/20	725	400			S.D.	O
	1150		250			S.D.	X	
18	1750	1/6 1/20	1500	900			S.D.	O
	1100		1500	900	520	200	S.D.	X
	850		820			S.T.D.	X	
24	1100	1/4 1/4	3000	2200	1600	1000	S.D.	O
	1700		4800	4200	3800	3000	S.D.	..
	825		2600	1500	920		S.T.D.	..
30	1080	1/2 1	5000	4000	2700		S.D.	
	900		6700	5600	4100	3100	S.	O
36	1080	2 1/2	8500	7600	6600	5400	S.D.	
	680		5000	3500		S.T.D.	X	
42	680	1 1/2 2 1/2 1	8000	6250	4800	3500	S.D.	O
	1080		10700	9700	8650	7700	S.D.	..
	465		7700	4800	2600	S.T.D.	X	
48	365	1	10000	7000			S.T.D.	X
54	365	1 1/2	14000	7800			S.T.D.	X
60	440	2	16000	12000			S.T.D.	O

All capacities based strictly on A.S.H.V.E. Code.

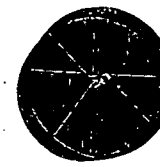
Prefix letters in motor column indicate kind of current for which the motors are available.

Alternating—S, single phase, two or three phase, 60 cycle. T, single phase, two or three phase, 25 cycle. D, direct current.

The low speeds are suitable for schools, theatres, auditoriums and other quiet running requirements.

Hirschman Steel Ventilator and Skylight Curbs for Decks of Concrete, Wood, Steel and Gypsum

Their light weight reduces roof load by many tons on concrete buildings; serves as re-enforcing frame; reduces cost of roof and also the cost of the ventilators. Supplies a form for opening and a solid and nicely finished opening. Supplies real anchor for ventilator or skylight, and a lock for holding roofing felt or flashing.



Open Closed
Effico Multiple Circular Louver *Damper*
 in Neck of Ventilator
 (Patented)