

"Effico" Wind-Driven Roof Ventilators

The Effico 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.

Bearings.—Effico Bearings are full ball bearings, are solidly enclosed and oil-flooded (also dust and acid proof). They are as sturdy as the best automobile bearings, and will run in a dry state for years, but we oil-flood them as an extra precaution.

Effico Internal Louver Unit Ventilators

The Effico internal louver unit comprises the Effico rotary ball bearing ventilator head constructed with a specially short base, or neck. In this base is built a circular multiple blade louver damper. The damper is carefully balanced and heavily constructed. The blades lap and are fitted in a circular frame. It is adaptable for manual control, but is intended for a thermostatic control system. The roof base is very low, is part of this unit and is supplied with either the square or round base.

The roof base and the ventilator head are connected by means of angle iron companion rings, which give solidity and facilitate the taking down of the ventilator when required. Each ventilator neck has also a tight fitting door to give free access to the louvers and to the operating motor. The operating motor is suspended underneath the damper to a cross brace. The object of the specially low base and the low roof base is to make the entire unit as low to the roof as possible.

Effico Louver Dampers

Made of stretcher leveled sheet steel. The pneumatic damper motor is supplied and installed with these units unless not desired. (Note specifications below).

Electric Remote Control

Also supplied to operate any of our dampers.

Effico Louver Unit

Low Height. The Effico louver unit sets very low (note dimensions at right).

Height above Coping

Louver Unit "C" dimension should be above coping. Note above.

Heads Only. Effico Heads without dampers are also supplied.

CAPACITY—Exhaust capacity same as Effico Head—note opposite page, for F Electric Ventilator see next page.

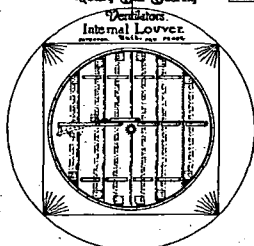
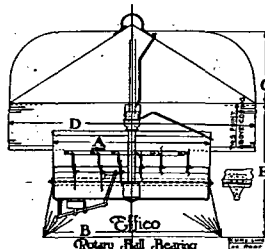
Suggested Specifications

The roof ventilators shall be of the sizes as shown in plans, [square base] [round base] style to be made of [Toncan] [Copper]. [Electric damper motor to be supplied with these units]. They shall be the Effico Internal Louver Unit Ventilators as manufactured by the W. F. HIRSCHMAN CO., INC., Buffalo, N. Y.

Effico Louver Unit Sizes and Dimensions

Dimensions, Inches					Galvanized Steel		Net Wgt., Lb.	Oz. Copper	Code for Telegraphy
A	B	C	D	E	Gauge	Cowl Base			
18	20	10	28 1/2	23	24	24	90	16	vale
24	30	14	40	30	22	22	140	18	valet
30	36	18	50	32	22	20	190	20	vive
36	42	22	60	32	22	18	225	24	varve
42	48	26	68	43	22	18	350	24	vetch
48	54	30	76	43	22	18	400	24	vax
54	60	34	86	43	22	18	600	24	vaid
60	66	38	98	43	20	18	710	24	valor
66	72	42	103 1/2	49	20	18	800	24	vamp
72	78	46	114	54	20	18	880	24	vane
84	92	54	130	54	18	16	1050	24	vang
96	116	66	153	54	18	16	1200	24	van

For round bases, "E" dimension remains the same.
For capacities note preceding page.



Patented May 20, 1922; March 20, 1928.



Open

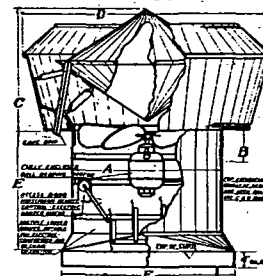


Closed

The Multiple Circular Louver Damper in Neck of Ventilator

Hirschman's S E and F Roof Ventilators

For our Effico Ventilator see preceding pages.



F Electric Ventilator Non-Automatic (Patented)
With Electric Damper

Motor—Condenser Motor, Brushless, Cummutatorless, Variable Speed, fully enclosed, very quiet running, are furnished at extra cost when above characteristics are essential.

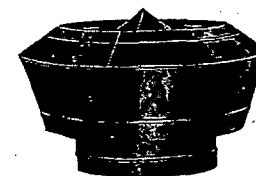
Recommendation of F Electric Ventilator—Is a high class ventilator where a high exhaust velocity is required at certain periodical times or resistance (static pressure) is encountered. Where our Effico Rotary Head, or the Effico Wind-Electric Automatic Ventilator, due to obstructed location or its moderate, even capacity is not required, then we recommend the Hirschman F Ventilator.

Dampers—Chain, pneumatic or electrically operating; close fitting damper supplied with all sizes if required. Fire Damper—with fusing link furnished if required. There are no outside louvers to freeze or blow shut.

As an Exhaust Head**FOR EXHAUST FAN**

SE Ventilator design is such that air driven 1200 ft. velocity through the head, registers only .015 water gauge static pressure a performance of unequalled merit. Thus for a fan or high heat exhaust head, it is highly effective. When so used and the fan is cut off the ventilator still operates as a syphon ventilator. There are no shutters to blow or freeze shut.

Is also vision-proof, will resist back drafting during a five mile wind against an adverse temperature difference of 10 deg. Fahr. Also during the same wind velocity will not back-draft unless a greater than static pressure resistance of .025 water gauge. For information on wind pressure causing down draft in the angle of U or L buildings, write us.



SE Ventilator

The head of the "F" Electric Ventilator sold separate—makes an excellent Syphon Ventilator.

DIMENSIONS OF HIRSCHMAN F VENTILATORS

Dimensions, in Inches					Thickness of Metal			
A	C	D	E	F	Ga. Galvan.		Oz. Copper	
					Head	Base	Head	Base
12	9 1/2	22	24	16	24	24	16	16
18	14 1/4	32	24	22	24	24	16	16
24	18	42	30	30	24	22	16	18
30	22 1/2	52	30	36	22	20	18	20
36	27	61 1/2	30	42	22	18	20	24
42	31 1/8	71	30	48	20	18	20	24
48	36	81	36	54	18	18	20	24
54	39 3/4	91	36	60	18	18	20	24
60	45 1/4	101	36	66	18	16	24	24
66	52	110	36	72	18	16	24	32
72	60	120	36	78	18	16	24	32
84	65	140	36	92	18	16	24	32

CAPACITIES HIRSCHMAN F ELECTRIC VENTILATORS

Size of Stack Inches	Fan Speed R.P.M.	Horse-Power	Capacities—C.F.M. Static Pressure in Inches of Water				Type of Motor	Shipping Weight	O Quiet X Silent
			1/8" or Less	1/4"	3/8"	1/2"			
12	1750	1/20	725	400			S.D.	100	O
	1150	1/50	250				S.D.		X
18	1750	1/6	1500	900	520	200	S.D.		O
	1100	1/20	1500	900			S.D.		X
24	1100	1/4	3000	2200	1600	1000	S.D.	225	O
	1150	1/4	4800	4200	3800	3000	S.D.		X
30	825	1/2	2600	1500	920		S.T.D.		
	1080	1/2	5000	4000	2700	2000	S.D.	300	X
36	860	1/2	4000	2900	1900		S.D.		O
	1080	1/2	6000	5400	4600		S.T.D.		X
42	680	1/2	5500	4600	3600		S.D.		O
	465	1	6200	5000	5700	4000	S.D.	525	O
48	680	1 1/2	9000	6600			S.T.D.	575	O
			14000	9000			S.T.D.		O

"F" Electric Ventilators furnished also in 54", 60" and 10" sizes.
Prefix letters in Motor Column indicate kind of current for which the motors are available.

("S") Alternating—single-phase, 60 cycle. ("T"), two or three-phase, 60 cycle. ("D") direct current.

("X"), Very silent suitable for Talkie Movies.

("O"), Silent for schools, theatres, auditoriums and other quiet running requirements.

REMEMBER—With the Hirschman F Ventilator you still have a good ventilator when the motor is not running.