

Window fans work in cool of the night

At night, you can cool yourself effectively with a window or attic fan, so long as the outside air is cooler than the air inside your house.

These fans exhaust warm air and bring in fresh outside air through doors and windows.

To be effective, a fan should be able to change the air in the house at least once each minute. Fans are rated by the volume of air they will exhaust per minute.

They are rated in cubic feet per minute (CFM). Large fans operate more slowly to deliver a given amount of air than smaller fans and usually make less noise.

To determine the size fan you need, figure the volume of the rooms you intend to cool. For example, if you want to cool an area 30 by 40 feet having a ceiling height of eight feet, it's 30 x 40 x 8 = 9,600 CFM.

If the fan is manually switched, make the switches convenient. If your house becomes too cool, you don't want to stumble around half asleep trying to find the switch.

FANS CAN be shut off automatically by timers that shut off the power at a predetermined time.

Temperature switches can also be used. These switches operate by ther-

mostat and automatically start and stop the fan at predetermined air temperatures.

Windows next to a window exhaust fan must be closed. Air entering such a window would go directly to the fan and have little cooling effect.

Window fans are relatively small. They vary from 8-20 inches in diameter.

The best location is across the house from the bedrooms or a window in a hallway.

This allows air to be drawn across the bedrooms. It's also quieter.

An attic fan can be mounted in the attic so the exhausts is toward a gable

vent of a one- or two-story house. The ceiling opening should be located above a hallway so that air can be drawn from all rooms.

An attic or ceiling fan also can be mounted in the attic with the blades parallel with the ceiling. The air still exhausts out gable vents. This installation may be easiest if the attic has a low ceiling. They should be mounted above a hallway so that air can be drawn from all rooms.

ATTIC FANS mounted in the gable vent can be used to cool the attic to reduce the load of an air conditioning unit. When used this way, the fan is op-

erated only during the day to keep the attic temperature from building up.

Here, thermostatically controlled switches are available to control fan operation automatically. A cool attic is nice, but you would be better off in a cool basement.

Don't install a fan in an attic gable vent to cool the house. Attics have many cracks and places for air to leak through. The fan will pull air through these cracks and will do a poor job of ventilating the house.

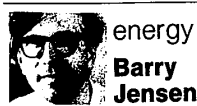
Gable and roof openings should have

at least one square foot open area for each 1,000 CFM fan capacity. If openings is covered with:

Wood louver backed with 1/4-inch hardware cloth, figure 2.25 square feet per 1,000 CFM.

Metal louver backed with 1/2-inch hardware cloth, figure 1.80 square feet per 1,000 CFM.

No louver covered with 1/2-inch hardware cloth, figure 1.15 square feet per 1,000 CFM.



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6 x 15 (49 S.F.)	R-19	21** 10.29
6 x 23 (75 S.F.)	R-19	21** 15.75

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6 x 15 (49 S.F.)		20**	9.80
6 x 23 (75 S.F.)		20**	15.00

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	8'	10'	12'	14'	16'	18'	20'
2x4	1.99	2.74	3.50	4.09	5.25	5.92	6.55
2x6	3.29	4.10	5.35	6.05	7.75	9.45	10.85
2x8	4.55	5.69	8.29	8.75	10.15	12.27	14.88
2x10	6.49	8.45	11.89	13.99	15.99	17.76	19.88
2x12	9.85	12.89	16.38	17.25	21.59	25.65	29.45
4x4	4.29	6.79	8.15	9.49	10.89		

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3 x 5 \$3.19*

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2x6	2.39	2.49	3.59	4.59	4.89	5.59	6.49
2x8	3.09	3.85	5.59	5.95	6.59	7.29	9.09
2x10	4.19	4.79	7.79	9.49	10.05	10.35	11.69
2x12	6.99	8.75	10.95	12.19	14.59	17.05	19.49

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CONSTRUCTION GRADE 2x4-8'

\$1.39*

ECONOMY GRADE 2x4-8'

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WHITE WOODS STANDARD GRADE

SALE	REC.
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1x3	16' UN. 15' UN.
1x4	19' UN. 17' UN.
1x6	26' UN. 23' UN.
1x8	35' UN. 29' UN.
1x10	41' UN. 39' UN.
1x12	68' UN. 59' UN.

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