



XFS SERIES EXHAUST SHUTTER FANS

For use in garages, sheds, workshops and more!

Canarm's XFS series wall exhaust fans are ideal for commercial applications.

They feature smooth, quiet, reliable, maintenance free operation. Available in 12" to 36" sizes - fans are single, 2 or 3 speeds with OFF and come complete with a 9' cord and grounded plug.

The fans have a durable steel construction with powder coat black finish and quiet, aluminum shutters with tie bar to maximize airflow. Installation is easy - simply mount the fan with 4 screws, plug it in and



FEATURES

- · Smooth, quiet, reliable, maintenance free operation.
- · Available in 12" to 36" sizes.
- 12" and 16" models are 3 speed
- 20" to 30" models are 2 speed.
- 36" model is single speed.
- · Durable steel construction with powder coat black finish.
- · Swept back, high efficiency, low noise blade design.
- · Shutters have a small magnet to prevent flapping and provide a superior seal.
- · Quiet, aluminum shutters with tie bar to maximize airflow.
- · Strong powder coated OSHA guarding inside.
- · ETL certified
- · Euro design outside rotor motor for higher efficiency.
 - Totally enclosed with sealed ball bearings
 - Pull chain speed control
 - 9 foot cord with 115 volt, 3-prong plug
- · Fans shipped totally assembled.

Tie bar aluminum shutters

SPECIFICATIONS

MODEL	FAN SIZE	MOTOR HP	SPEED	VOLTS	NET WEIGHT	FAN RPM	CFM at 1/8" SP	HIGH SPEED SOUND LEVEL dB(A)	MAX AMPS	MAX AMBIENT TEMP
XFS12	12"	1/12	3	115	19 lbs	1600/1420/1150	1100/900/800	58	0.8 / 0.8 / 0.7	90°C/194°F
XFS16	16"	1/8	3	115	27 lbs	1630/1450/1330	2300/2000/1800	58	2.0 / 1.8 / 1.6	74°C/158°F
XFS20	20"	1/4	2	115	40 lbs	1140/1050	3300/2900	68	2.3 / 2.0	70°C/158°F
XFS24	24"	1/2	2	115	56 lbs	1140/1070	4700/3800	72	5.0 / 4.3	70°C/158°F
*XFS30	30"	1/2	2	115	72 lbs	1080/980	6400/5000	71/68	4.9/4.3	70°C/158°F
*XFS36	36"	1	1	115	88 lbs	970	10500	76	7.2	70°C/158°F

DIMENSIONS

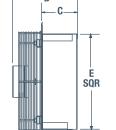
Note: Dimensions subject to change

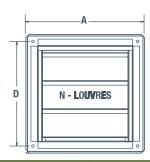
MODEL	AXA	В	С	D (c/c)	E SQR	N (# OF LOUVRES)	FRAMING	CARTON DIMENSIONS		
MODEL	SQUARE							Length	Height	Width
XFS12	16 7/8"	8 3/8"	5"	14 7/8"	13 1/2"	3	14" x 14"	20"	20"	12"
XFS16	20 7/8"	9 1/2"	5"	18 7/8"	17 1/2"	4	18" x 18"	25"	25"	13"
XFS20	24 7/8"	9 1/2"	5"	22 7/8"	21 1/2"	5	22" x 22"	28"	28"	13"
XFS24	28 7/8"	11 1/8"	5"	26 7/8"	25 1/2"	6	26" x 26"	32"	32"	15"
*XFS30	34 7/8"	12 1/2"	5"	32 7/8"	31 1/2"	7	34" x 34"	38"	38"	15.75"
*XFS36	40 7/8"	14 1/2"	5"	38 7/8"	37 1/2"	8	40" x 40"	44"	44"	17"



ACCESSORIES

Optional galvanized weather hood.







OPTIONAL WEATHER HOOD				
FAN SIZES	HOOD #			
12"	GH-XF12			
16"	GH-XF16			
20"	GH-XF20			
24"	GH-XF24			



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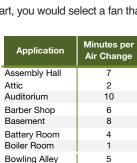
To determine the proper XFS Fan for your applications, use the following formula.

Number of cubic feet in room / Number of minutes per air change = Required CFM Capacity

EXAMPLE: A general office, (see chart) which requires an air change every ten minutes, would require the following fan capacity.

If office is 100' x 40' x 10' = 40,000 cubic ft; 40,000 cubic ft / 10 minutes per air change = 4000 Required CFM

From the chart, you would select a fan that is rated at 4000 CFM at 1/8" S.P. (Static Pressure)



Application	Minutes per Air Change
Church	15
Classroom	6
Dance Hall	5
Department Store	6
Dry Cleaning	5
Engine Room	6
Factory	6
Forge Room	3

Application	Minutes per Air Change
Foundry	4
Garage	5
General Office	10
Gymnasium	8
Laundry	2
Locker Room	3
Machine Shop	8
Plating Room	3

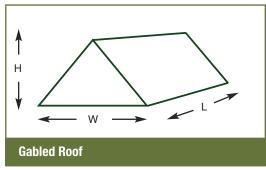


Application	Minutes per Air Change					
Pressing Room	1					
Projection Booth	2					
Summer Cooling	1					
Toilet	3					
Transformer Room	1					
Warehouse	12					
Welding Shop	2					

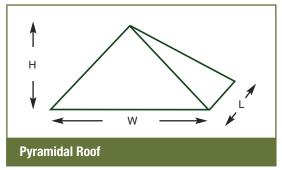
ATTIC VENTILATION

CAUTION!

Attic temperatures can get very high and exceed the high temperature protection device, shutting down the fan if there is not enough air change to keep the attic at a temperature below 120 °F.



Volume = L x W x 1/2 H



Volume = LxWx 1/3H

Recommended air changes in an attic are about 2-3 minutes per air charge (MIN/AC) to keep the temperatures down. (2 minutes in southern climates and 3 minutes in northern climates.)

Using 2 minutes, required exhaust CFM = Total Volume 2 MIN/AC

This provides your required CFM of the exhaust fan, BUT there must be enough venting to supply fresh air to the attic space. A good rule of thumb is 1.5 ft² for every 1000 CFM of airflow.

Example:

Southern Climate $\frac{6000 \text{ ft}^3}{2} = 3000 \text{ CFM}$ Southern climate $= 3000 \text{ x} \cdot \frac{1.5}{1000} = 4.5 \text{ ft}^2$ Northern Climate $\frac{6000 \text{ ft}^3}{3} = 2000 \text{ CFM}$ Northern Climate $= 2000 \text{ x} \cdot \frac{1.5}{1000} = 3 \text{ ft}^2$ Use XFS16

SUBJECT TO CHANGE WITHOUT NOTICE - 10/21