

# SD - STANDARD WALL EXHAUST FANS

Efficient, low maintenance and easy to install.

Canarm/LFI's standard fans follow a tradition of quality in design, materials and construction. All our standard fans are developed to be efficient and economically priced. Fans are available in single, two and variable speed models. All variable speed standard fans use an energy efficient variable speed, dual voltage motor and blade combination.

## FEATURES

- Available in 8" to 36" sizes.
- All fans use a totally enclosed, thermally protected motor.
- Heavy wire chrome plated **OSHA guards** on intake side of fan.
- Fan blades are well balanced, heavy gauge aluminum or galvanized.
- The rugged steel welded box housing has a durable powder coated finish.
- Aluminum louver shutters are supported by long life nylon bushings (30" & 36" have PVC louvres).
- All fans are shipped completely assembled.



To determine the proper Canarm/LFI fan for your applications, use the following formula.

$$\text{Number of cubic feet in room} / \text{Number of minutes per air change} = \text{Required C.F.M. Capacity}$$

### \*\*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 C.F.M.**

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

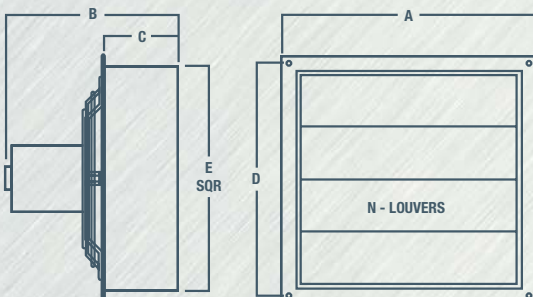
Application	Minutes per Air Change	Application	Minutes per Air Change	Application	Minutes per Air Change	Application	Minutes per Air Change	Application	Minutes per Air Change
Assembly Hall	7	Bowling Alley	5	Engine Room	6	Gymnasium	8	Projection Booth	2
Auditorium	10	Church	15	Factory	6	Laundry	2	Summer Cooling	1
Barber Shop	6	Classroom	6	Forge Room	3	Locker Room	3	Toilet	3
Basement	8	Dance Hall	5	Foundry	4	Machine Shop	8	Transformer Room	1
Battery Room	4	Department Store	6	Garage	5	Plating Room	3	Warehouse	12
Boiler Room	1	Dry Cleaning	5	General Office	10	Pressing Room	1	Welding Shop	2

MODEL	SPEED	BLADE DIAMETER	RPM	HP	VOLTAGE	AMPS (FLA)	WEIGHT (LBS)	dB(A) @5 ft	CFM @ STATIC PRESSURE				FRAMING DIMENSIONS
									0.00"	0.10"	0.125"	0.25"	
S8-B2	Two	8"	1600/1300	1/40	115	0.5	12	48	360/300	270/150	230/110	0	11" X 11"
S10-B2	Two	10"	1600/1300	1/40	115	0.5	13	56	690/580	590/460	570/390	0	13" X 13"
S12-E1	Single	12"	1625	1/4	115	1.8	28	63	1640	1540	1510	1390	15" X 15"
S12-E2	Two	12"	1725/1140	1/4	115	3.4	32	64	1650/1090	1550/950	1520/930	1390/0	15" X 15"
S12-EVD	Variable	12"	1700	1/3	115/230	5.0/2.5	32	60	1650	1540	1510	1390	15" X 15"
S14-E1	Single	12"	1700	1/3	115/230	5.0/2.5	30	67	2170	2070	2030	1860	17" X 17"
S14-E2	Two	14"	1725/1140	1/4	115	3.4	34	65	2180/1350	2080/1190	2060/1160	1890/0	17" X 17"
S16-E1	Single	16"	1625	1/4	115	1.8	33	68	2370	2270	2210	2060	19" X 19"
S16-E2	Two	16"	1725/1140	1/4	115	3.4	36	69	2380/1640	2280/1490	2230/1430	2070/0	19" X 19"
S16-EVD	Variable	16"	1700	1/3	115/230	5.0/2.5	36	63	2370	2270	2210	2063	19" X 19"
S18-F1	Single	18"	1625	1/3	115	4.0	37	73	3200	3090	3040	2920	21" X 21"
S18-F2	Two	18"	1725/1140	1/3	115	5.3/2.9	43	74	3200/2100	3090/1890	3040/1820	2920/0	21" X 21"
S18-FVD	Variable	18"	1700	1/3	115/230	3.8/1.9	45	74	3150	3050	2980	2860	21" X 21"
S20-F1	Single	20"	1625	1/3	115	4.0	41	77	3420	3220	3170	2920	23" X 23"
S20-F2	Two	20"	1725/1140	1/3	115	5.3/2.9	45	77	3440/2300	3240/2000	3180/1950	2930/0	23" X 23"
SD24-F1	Single	24"	1100	1/3	115	5.4	46	70	5600	4500	4300	3600	27" X 27"
SD24-GVD	Variable	24"	1100	1/2	115/230	6.4/3.2	56	72	5050	4910	4810	4400	27" X 27"
SD30-G1D	Single	30"	1100	1/2	115/230	6.4/3.2	72	82	8000	7000	6000	5000	33" X 33"
SD36-G1D	Single	36"	850	1/2	115/230	6.6/3.3	88	72	12000	11000	10500	9500	39" X 39"

NOTE: RPM Min (Minimum) is determined when louvers are opened one inch.

Note: Wind has a significant effect on exhaust fans. A 10 mph wind creates a 0.05" pressure against the fan. A 20 mph wind creates 0.20" pressure and 30 mph a 0.45" pressure. These pressures are in addition to the static pressure in the building. Wind blocks or hoods should be included in all designs where fans will be subjected to winds above 10 mph.

## DIMENSIONS



## ACCESSORIES

FAN SIZE	A X A SQUARE	B	C	D (c/c)	E	N
8"	13 1/4"	10"	4"	12"	10 3/4"	2
10"	15 1/4"	10"	4"	14"	12 3/4"	2
12"	17 1/4"	14"	6"	16"	14 3/4"	3
14"	19 1/4"	14"	6"	18"	16 3/4"	3
16"	21 1/4"	14"	6"	20"	18 3/4"	4
18"	23 1/4"	15"	6"	22"	20 3/4"	4
20"	25 1/4"	16"	6"	24"	22 3/4"	5
24"	29 1/4"	16"	6"	28"	26 3/4"	5
30"	35 1/4"	19"	6"	34"	32 3/4"	16
36"	41 1/4"	16"	6"	40"	38 3/4"	20

- Grey plastic weather hood
- Galvanized metal hood
- MC type and wet locations controls.

For Intake shutter, see page 15.

For a listing of available hoods, see page 11.

For a listing of available control options, see page 25-26.



# EXPLOSION PROOF STANDARD WALL EXHAUST FANS

Efficient, low maintenance and easy to install.

Canarm LFI's explosion proof fans follow a tradition of quality in design, materials and construction. Using our quality "Standard Fan" housing and motor mount as the basis for design, we have developed an efficient, economically priced Explosion Proof Fan. All Explosion Proof Fans have a single speed, dual voltage explosion proof motor that meets and conforms to all the standards that are listed below.

**CLASS I - GROUP C & D**  
**CLASS II - GROUP F & G**



## FEATURES

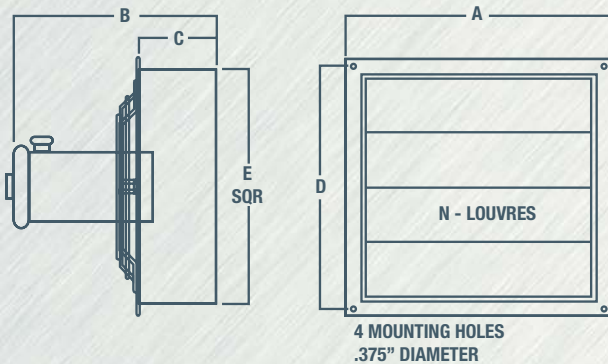
- Totally enclosed, ball bearing motor with thermal overload protection.
- The fan blades are well-balanced, heavy gauge aluminum.
- The rugged steel welded box housing has a durable powder coated finish.
- Aluminum louver shutters are supported by long life nylon bushings.
- Heavy wire chrome plated OSHA guards on intake side of fan.
- All fans are shipped completely assembled.



MODEL	FAN SIZE	HP	VOLTS	AMPS	SPEED	RPM	AIRFLOW CAPACITY - CFM				FRAMING DIMENSIONS
							0" SP	.05" SP	.10" SP	.25" SP	
SD12-XPF	12"	1/3	115/230	6.6/3.3	Single	1625	1,640	1,600	1,540	1,390	15" x 15"
SD18-XPF	18"	1/3	115/230	6.6/3.3	Single	1625	3,200	3,150	3,090	2,920	21" x 21"
SD24-XPF	24"	1/3	115/230	6.6/3.3	Single	1625	5,500	5,400	5,310	5,100	27" x 27"

**NOTE: RPM Min (Minimum) is determined when louvres are opened one inch.**  
**Note: Wind has a significant effect on exhaust fans. A 10 mph wind creates a 0.05" pressure against the fan. A 20 mph wind creates 0.20" pressure and 30 mph a 0.45" pressure. These pressures are in addition to the static pressure in the building. Wind blocks or hoods should be included in all designs where fans will be subjected to winds above 10 mph.**

## DIMENSIONS



FAN SIZE	A X A SQUARE	B	C	D c/c	E	N
12"	17 1/4"	20 1/2"	6"	16"	14 3/4"	3
18"	23 1/4"	20 1/2"	6"	22"	20 3/4"	4
24"	29 1/4"	20 1/2"	6"	28"	26 3/4"	5

## ACCESSORIES

For a listing of available hoods, see page 11.