

# SD: STANDARD WALL EXHAUST FANS



FRONT

## Features

- \* Available in 8" to 36" sizes.
- \* Single, two and variable speed motors are available.
- \* All fans use a totally enclosed, ball bearing motor with thermal overload protection.
- \* The motor mount is manufactured with heavy welded rods and has a powder coated finish.
- \* The fan blades are well-balanced, heavy gauge aluminum.
- \* The rugged steel welded box housing has a durable powder coated finish.
- \* Aluminum shutters are supported by long life nylon bushings (30" and 36" have PVC shutters).
- \* All fans are shipped completely assembled.



BACK

## General Information

Canarm/Leader Fan's Standard Wall Fans follow a tradition of quality in design, materials and construction. All our Standard Wall Fans are developed to be efficient and economically priced. All variable speed Standard Wall Fans use an energy efficient variable speed, dual voltage motor and blade combination.

To determine the proper Canarm /Leader Fan for your application, use the following formula.

$$\text{Number of cubic feet in room} / \text{Number of minutes per air change} = \text{Required CFM Capacity}$$

### \*\*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 feet

$$40,000 \text{ cubic feet} / 10 \text{ minutes per air change} = 4000 \text{ Required CFM}$$

From the "Performance Data" section, you would select a fan that is rated at 4000 CFM at 1/8" Static Pressure.



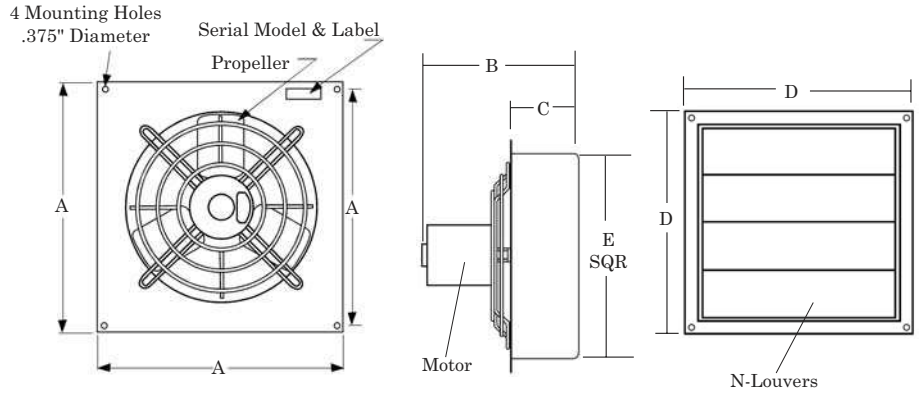
## Fan Selection Chart

Application	Minutes per Air Change	Application	Minutes per Air Change	Application	Minutes per Air Change
Assembly Hall	7	Department Store	6	Planting Room	3
Auditorium	10	Dry Cleaning	5	Pressing Room	1
Bakery	3	Engine Room	6	Projection Booth	2
Barber Shop	6	Forge Room	3	Restaurant	6
Basement	8	Foundry	4	School	7
Battery Room	4	Garage	5	Summer Cooling	1
Boiler Room	1	General Office	10	Store	8
Bowling Alley	5	Gymnasium	8	Tavern	3
Church	15	Hospital	8	Toilet	3
Cocktail Bar	3	Kitchen	2	Transformer Room	1
Corridor	10	Laundry	2	Warehouse	12
Dairy	4	Locker Room	3	Welding Shop	2
		Machine Shop	8		

# SD: STANDARD WALL EXHAUST FANS

## Fan Dimensions

Fan Auto	A	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



## Performance Data & Specifications

Model Number	Fan Size	Motor HP	Operation Speed	RPM		Current Load Amps		Input Watts	Airflow Capacity - CFM				CFM Watts	Sound Level Decibel (A)	Framing Dimensions	Shipping Weight (Lbs.)
						@ 115V	@ 230V		0" S.P.	.10" S.P.	.125" S.P.	.25" S.P.				
S8-B2	8"	1/20	2	high	1550	0.95	-	109	360	270	230	0	2.5	48	11" x 11"	12
				low	1300	0.45			300	150	110	0		43		
S10-B2	10"	1/20	2	high	1550	1.2	-	125	690	590	570	0	4.72	56	13" x 13"	13
				low	1300	0.7			580	460	390	0		50		
S12-E1	12"	1/4	1	1750		3.5	-	245	1640	1540	1510	1390	6.00	63	15" x 15"	28
S12-E2			2	high	1760	3.4	-	230	1650	1550	1520	1390	6.74	64		32
				low	1180	2.3		132	1090	950	930	-	7.31	50		
SD12-EV			Variable	Max	1625	2.2	1.1	205	1650	1540	1510	1390	7.50	60		32
Min	600	560	440	420	-				-							
S14-E1	14"	1/4	1	1740		3.6	-	257	2170	2070	2030	1860	8.05	67	17" x 17"	30
S14-E2			2	high	1740	3.8	-	253	2180	2080	2060	1890	8.22	65		34
	low	1170		2.2	137	1350		1190	1160	-	8.69	53				
S16-E1	16"	1/4	1	1740		3.7	-	274	2370	2270	2210	2060	8.28	68	19" x 19"	33
S16-E2			2	high	1740	3.7	-	270	2380	2280	2230	2070	8.44	69		36
				low	1170	2.3		152	1640	1490	1430	-	9.80	55		
S16-EV			Variable	Max	1625	2.6	1.3	248	2370	2270	2210	2063	9.15	63		36
Min	450	610	580	570	-				-							
S18-F1	18"	1/3	1	1700		4.8	-	448	3200	3090	3040	2920	6.89	73	21" x 21"	37
S18-F2			2	high	1700	5.7	-	446	3200	3090	3040	2920	6.93	74		43
				low	1140	3.1		250	2100	1890	1820	-	7.56	64		
SD18-FV			Variable	Max	1625	3.7	1.9	378	3150	3050	2980	2860	8.07	74		45
Min	390	700	650	630	-				-							
S20-F1	20"	1/3	1	1735		4.8	-	322	3420	3220	3170	2920	10.00	77	23" x 23"	41
S20-F2			2	high	1745	4.3	-	315	3440	3240	3180	2930	10.20	77		45
				low	1165	2.6		190	2300	2000	1950	-	10.52	67		
SD24-F1	24"	1/3	1	1075		4.3	-	370	5000	4500	4300	3600	12.80	70	27" x 27"	46
SD24-GV			Variable	Max	1100	4.2	2.1	290	5050	4940	4810	4400	13.20	72		56
				Min	310				800	710	650	-		-		
SD30-G1D	30"	1/2	1	1075		4.6	2.3	600	8000	7000	6000	5000	11.50	82	33" x 33"	72
SD36-G1D	36"	1/2	1	850		6.0	3.0	660	12000	11000	10500	9500	13.00	72	39" x 39"	88

NOTE: RPM Minimum is determined when louvers are opened 1"

Note: Wind has a significant effect on exhaust fans. A 10 mph wind creates a .05" pressure against the fan. A 20 mph wind creates .20" pressure and 30 mph a .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.