

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.

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

Number of cubic feet in room / Number of minutes per air change = 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)



FEATURES

- Available in 8" to 42" sizes.
- Single, two and variable speed models are available.
- All fans use a totally enclosed, thermally protected motor.
- The rugged steel welded box housing has a durable powder coated finish.
- Aluminum louver shutters are supported by long life nylon bushings (30", 36" & 42" have PVC louvers).
- 8" - 24" models have heavy wire chrome plated OSHA guards on intake side of fan. 30", 36" & 42" models have grey powder coated guards.
- All fans are shipped completely assembled.



DIMENSIONS

| FAN SIZE | A X A SQUARE | B | C | D (c/e) | E | N |
|----------|--------------|-----|--------|---------|---------|----|
| 8" | 13 1/4" | 11" | 4" | 12" | 10 3/4" | 2 |
| 10" | 15 1/4" | 11" | 4" | 14" | 12 3/4" | 2 |
| 12" | 17 1/4" | 17" | 6" | 16" | 14 3/4" | 3 |
| 14" | 19 1/4" | 17" | 6" | 18" | 16 3/4" | 3 |
| 16" | 21 1/4" | 17" | 6" | 20" | 18 3/4" | 4 |
| 18" | 23 1/4" | 15" | 6" | 22" | 20 3/4" | 4 |
| 20" | 25 1/4" | 18" | 6" | 24" | 22 3/4" | 5 |
| 24" | 29 1/4" | 18" | 6" | 28" | 26 3/4" | 5 |
| 30" | 35 1/4" | 19" | 6" | 34" | 32 3/4" | 16 |
| 36" | 41 1/4" | 18" | 6" | 40" | 38 3/4" | 20 |
| 42" | 47 1/4" | 18" | 6 3/4" | 46" | 44 3/4" | 24 |

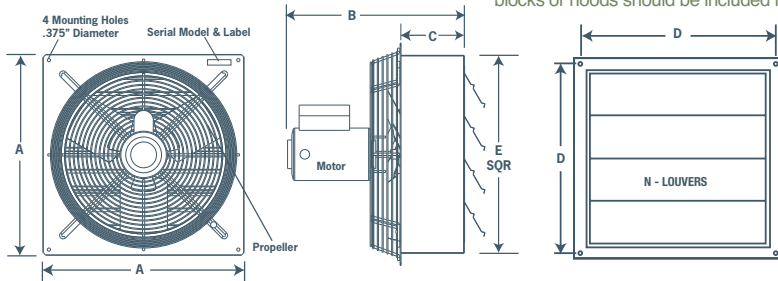
| Application | Minutes per Air Change | Application | Minutes per Air Change | Application | Minutes per Air Change | Application | Minutes per Air Change |
|---------------|------------------------|------------------|------------------------|----------------|------------------------|------------------|------------------------|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

SPECIFICATIONS

| 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 | 1/20 | 115 | 1.7 | 12 | 48 | 360/300 | 270/150 | 230/110 | 0 | 11" X 11" |
| S10-B2 | Two | 10" | 1600/1300 | 1/20 | 115 | 1.7 | 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 | 14" | 1625 | 1/4 | 115 | 1.8 | 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 | 5000 | 4500 | 4300 | 3600 | 27" X 27" |
| SD24-GVD | Variable | 24" | 1100 | 1/3 | 115/230 | 4.4/2.2 | 56 | 72 | 5050 | 4910 | 4810 | 4400 | 27" X 27" |
| SD30-G1D | Single | 30" | 1100 | 1/3 | 115/230 | 4.4/2.2 | 72 | 82 | 8000 | 7000 | 6000 | 5000 | 33" X 33" |
| SD36-G1D | Single | 36" | 850 | 1/2 | 115/230 | 6.6/3.3 | 88 | 72 | 10000 | 8500 | 8000 | 6200 | 39" X 39" |
| SD42-H1D | Single | 42" | 850 | 1 | 230 | 5.5 | 122 | 83 | 14900 | 13550 | 13210 | 10800 | 45" X 45" |

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.



30", 36" & 42" MODELS WITH PVC LOUVERS

BACK VIEW

ACCESSORIES

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

For a complete listing on all available accessories, see page C15.

For a complete listing of all available hoods, see page C11.

For all available control options, see Controls & Thermostats tab.