



ELECTRIC ORGAN BLOWER COMPANY

Blower Capacity Chart (U.S.)

Maximum Static Pressure	½ hp	¾ hp	1 hp	1½ hp	2 hp	3 hp	5 hp	7½ hp	10 hp
Regular Fans	6"	7¼"	7½"	8½"	9"	9½"	11"	15"	19"
Hi-Static Large Fans	7½"	8½"	N/A	N/A	11"	11"	13"	16"	N/A
Wind Pressure (At Chest)	Maximum Number of Stops & C.F.M.								
3"	14 630	20 900	25 1125	33 1485	40 1800	55 2475	90 4050	124 5559	162 7290
3½"	11 547	15 764	20 987	26 1307	33 1653	46 2276	73 3638	102 5100	131 6548
4"	9 475	12 649	16 864	21 1154	28 1510	40 2089	60 3272	86 4674	108 5890
4½"	7 413	10 534	13 755	18 1026	24 1371	33 1911	52 2945	75 4279	93 5301
5"	6 360	8 480	11 660	15 921	20 1235	29 1744	44 2655	65 3911	79 4779
6"	-	6 390	-	12 780	15 975	22 1441	33 2170	60 3250	59 3906
7"	-	-	-	-	11 779	17 1176	26 1800	39 2680	47 3240
8"	-	-	-	-	8 584	13 949	21 1533	30 2190	38 2759
10"	-	-	-	-	-	-	16 1280	22 1799	29 2304
12"	-	-	-	-	-	-	-	18 1530	23 1974
14"	-	-	-	-	-	-	-	15 1350	19 1755
16"	-	-	-	-	-	-	-	-	15 1560

For general questions and to place an order, please contact Kate Tegtmeier: kate@zephyrblower.com

For technical questions, please contact Vic Schantz: v.schantz@zephyrblower.com

How to Calculate Blower Capacity

How to calculate number of stops and pressure:

Step 1: Calculate the number of stops on each pressure.

Great	7 stops x 3.25" pressure	=	22.75 pressure units
Great	1 stop x 5" pressure	=	5 pressure units
Swell	7 stops x 4" pressure	=	28 pressure units
Choir	7 stops x 3.5" pressure	=	24.5 pressure units
Choir	1 stop x 8" pressure	=	8 pressure units
Pedal	2 stops x 5" pressure	=	10 pressure units
Pedal	3 stops x 4" pressure	=	12 pressure units

Step 2: Add the total stops listed. Add the total pressure units.

28 stops 110.25 pressure units

Step 3: Divide the total pressure units calculated above by the total stops listed.

110.25 pressure units/28 total stops = 3.9375" average pressure
(round up = 4")

Step 4: Use the Zephyr Capacity Chart to find the recommended blower size.

At 4" of pressure, a 2 hp Zephyr Blower will accommodate a 28 stop organ.

Helpful Tips:

- When counting stops, Manual 16' stops with more than 61 pipes and unit action should be counted as two stops.
- The maximum required pressure may increase the required blower size. A blower's static pressure should be two to three inches higher than the maximum required pressure at the windchest.
- For Blowers in locations with higher elevation, discount the capacity by 3% for each 1,000 feet above sea-level (assuming zero-feet elevation).
- Use of Hi-Static Fans increases C.F.M. by 10-20% depending on horsepower.



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Blower Capacity Chart (Metric)

Maximum Static Pressure	½ hp	¾ hp	1 hp	1½ hp	2 hp	3 hp	5 hp	7½ hp	10 hp
Regular Fans	150 mm	184 mm	188 mm	216 mm	225 mm	240 mm	275 mm	375 mm	483 mm
Hi-Static Large Fans	188 mm	216 mm	N/A	N/A	275 mm	275 mm	325 mm	400 mm	N/A
Wind Pressure (At Chest)	Maximum Number of Stops & Cubic Meters per Minute								
75 mm	14 17.8	20 25.5	25 31.8	33 42.0	40 50.94	55 70.1	90 114.7	124 157.5	162 206.5
88 mm	11 15.5	15 21.6	20 27.9	26 37.0	33 46.8	46 64.5	73 103.0	102 144.5	131 185.5
100 mm	9 13.4	12 18.4	16 24.5	21 32.7	28 42.8	40 59.2	60 92.7	86 132.4	108 168.3
113 mm	7 11.7	10 15.1	13 22.1	18 29.0	24 38.8	33 54.1	52 83.4	75 121.2	93 150.2
125 mm	6 10.2	8 13.6	11 18.7	15 26.1	20 35.0	29 49.4	44 75.2	65 110.8	79 135.4
150 mm	-	6 11.0	-	12 22.1	15 27.6	22 40.8	33 61.5	60 92.1	59 110.7
175 mm	-	-	-	-	11 22.1	17 33.3	26 51.0	39 75.9	47 91.8
200 mm	-	-	-	-	8 16.5	13 26.9	21 43.4	30 62.0	38 78.2
250 mm	-	-	-	-	-	-	16 36.3	22 51.0	29 65.3
300 mm	-	-	-	-	-	-	-	18 43.3	23 55.9
350 mm	-	-	-	-	-	-	-	15 38.2	19 54.3
400 mm	-	-	-	-	-	-	-	-	15 44.2

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How to Calculate Blower Capacity

How to calculate number of stops and pressure:

Step 1: Calculate the number of stops on each pressure.

Great	7 stops x 80mm pressure	=	560 pressure units
Great	1 stop x 125mm pressure	=	125 pressure units
Swell	7 stops x 100mm pressure	=	700 pressure units
Choir	7 stops x 90mm pressure	=	630 pressure units
Choir	1 stop x 200mm pressure	=	200 pressure units
Pedal	2 stops x 125mm pressure	=	250 pressure units
Pedal	3 stops x 100mm pressure	=	300 pressure units

Step 2: Add the total stops listed. Add the total pressure units.

28 stops 2765 pressure units

Step 3: Divide the total pressure units calculated above by the total stops listed.

2765 pressure units/28 total stops = 98.75mm average pressure
(round up = 100mm)

Step 4: Use the Zephyr Capacity Chart to find the recommended blower size.

At 100mm of pressure, a 2 hp Zephyr Blower will accommodate a 28 stop organ.

Helpful Tips:

- When counting stops, Manual 16' stops with more than 61 pipes and unit action should be counted as two stops.
- The maximum required pressure may increase the required blower size. A blower's static pressure should be 50 to 75mm higher than the maximum required pressure at the windchest.
- For Blowers in locations with higher elevation, discount the capacity by 1% for each 100 meters above sea-level (assuming zero-feet elevation).
- Use of Hi-Static Fans increases C.F.M. by 10-20% depending on horsepower.