

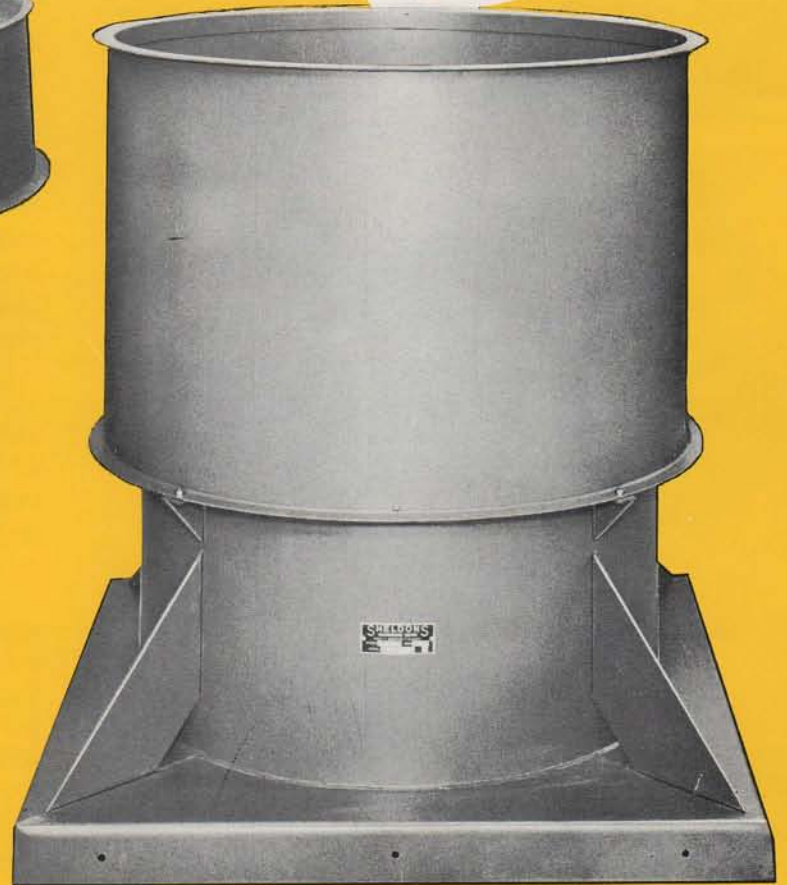
SHELDONS

ROOF VENTILATORS

AXIAL FAN TYPES FR - VR



D4800



D4700

Catalogue No. 6006-B

June - 70



Sheldons Engineering.

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Applications of Sheldon Power Roof Ventilators

These Sheldon Ventilators are designed to provide the most efficient and economical means of exhausting large volumes of air in locations where large space areas are to be ventilated. Where dust, fumes, heat and injurious gases must be removed, the units are especially versatile. The advantages of these Units may be utilized in a variety of applications. They are particularly adaptable for the ventilation requirements of commercial and industrial buildings.

Roof installation of the Sheldon Power Ventilator releases valuable floor and wall space for other productive uses. These units in no way interfere with plant operations such as conveyor systems or craneways. Each unit operates individually. Thus, single units can be used for specific location ventilation or a number of units will fulfill large space ventilation requirements. A cost saving advantage of the independent unit is that the entire system need not be in operation if only a part of the building is being used.

Since the Sheldon units are self-contained, no duct work is required. The design of the ventilating system is simplified and installation costs are reduced.

The consulting engineer, plant engineer or contractor in charge of installation will find the Sheldon FR and VR units adaptable to the situations he meets in construction. They are shipped as complete packaged units ready for installation on the type of roof specified; flat, rounded or peak. They can be mounted on an easily erected roof curb on any type of roof construction; wood, concrete or fabricated steel.

A weatherproof installation is assured as all roofing details can be completed before mounting. The roof curb flashing is incorporated in the ventilator design. Simply set unit on roof curb, bolt down, make wiring connections and installation is complete.

Relocation of the Sheldon units is possible if ventilation requirements change. If building is enlarged additional units may be added to the system. These units may also be teamed up with other Sheldon air moving equipment where broader ventilation requirements are to be met.

Where a balance in ventilation is required, supply and exhaust units of equal capacities may be teamed-up. The system provides exhaust of polluted air with compensating replacement of fresh air.

Lubrication of the direct drive motor is the only maintenance required. Top of unit is hinged for easy access to motor and wheel. The totally enclosed, ball bearing propeller fan motor is specifically designed for vertical operation.

Where a unit with a very low sound rating is required, or where higher resistances are to be overcome, we recommend the Type CS or SR-2 Roof Ventilators with centrifugal non-overloading wheels. See illustrations on page 8. Ask for Catalogue No. 6004 or 6008.

Sheldon Power Ventilators are designed to meet requirements in a wide range of applications. Our engineering staff, backed by over half a century of experience, will be pleased to assist you in determining the models best suited for your needs.

SHELDONS D4800

FR UNIT EXHAUST OR SUPPLY HOOD TYPE

When ventilation requirements call for removal of large quantities of air these units are ideal. The hood assures a completely weatherproof installation and is hinged for easy access to wheel and direct drive motor. Polypropylene wheels are furnished up to size 30, and cast aluminum wheels for sizes 36 and larger. Back draft dampers are automatic. Unit construction is of heavy steel with weather-resistant paint finish. Aluminum or copper construction is available when specified. For safety during maintenance, disconnect switches under hood are provided at extra cost. A selection of wheel types is available. The choice depends on the application and the performance required. This feature provides for alternative performance ratings in the same size ventilator.

Where the need is for air supply, the FR Unit can be provided with reversed action. This is an important feature where make up air is required to balance ventilation systems. In the reverse-action unit the back draft dampers are eliminated and hand operated or motorized dampers are installed in base of unit. Dimensions and specifications of the FR Unit are detailed on pages 4 and 5.

SHELDONS D4700

VR UNIT VERTICAL EXHAUST TYPE

Dirty air, dust, smoke, acid fumes, corrosive gases, oil and grease laden air are dissipated high in the air as the VR Unit discharges vertically at a high velocity. Thus the polluted air is carried high above the building and is dispersed into the atmosphere with a minimum of settling. There is no danger of re-entry into supply ventilators. The Unit is completely weatherproof. Back draft dampers are automatic. Due to design features no drain gutters are required. Top is hinged for easy access to direct drive motor. For safety during maintenance, disconnect switches are available at extra cost. Construction is of heavy steel with weather resistant paint finish. Aluminum or copper construction is available when specified. A selection of wheel types is available. The choice depends on the application and the performance required. This feature provides for alternative performance ratings in the same size ventilator.

Specifications and dimension data are detailed on pages 6 and 7.



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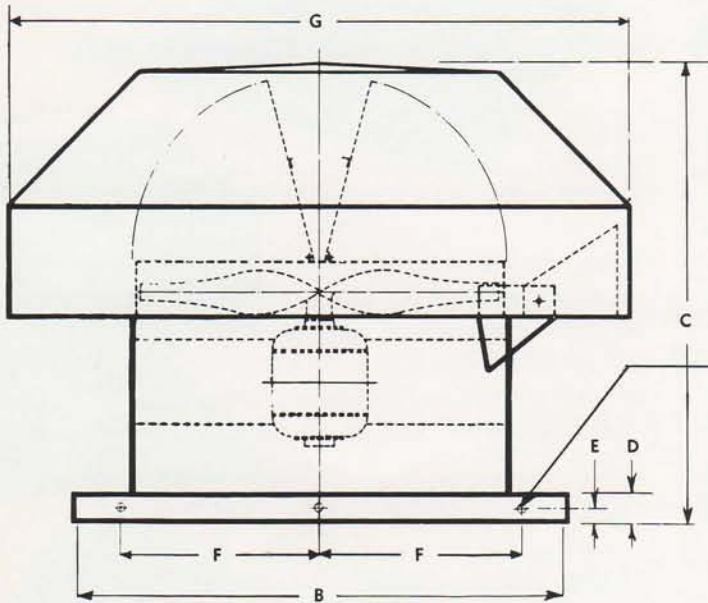
FR UNIT

EXHAUST OR SUPPLY

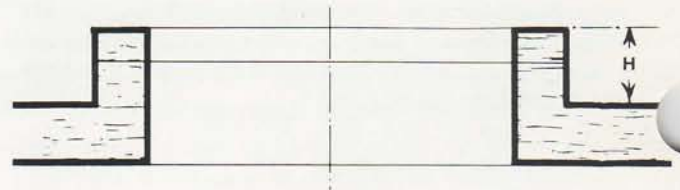
D4800

Performance Ratings

60 CYCLE MOTOR SPEEDS
 Size symbol explanation: First number denotes fan size — remaining numbers indicate wheel type and blade angle.



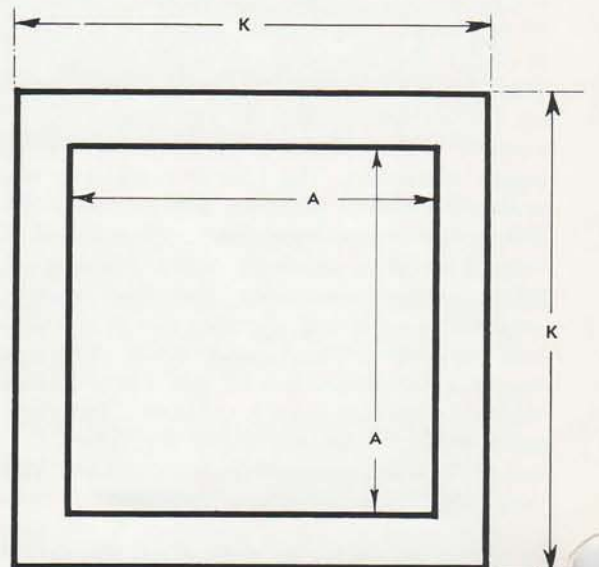
J - No. and Size of Lag Screws



FR.

Fan Size	A	B	C	D	E	F	G	H	J	K	Wt.
12	12 1/2	21	21 1/4	2	1	6	24	6	8-3/16	20	80
14	14 1/2	23	21 1/2	2	1	7	24	6	8-3/16	22	85
16	16 1/2	25	24 1/2	2	1	8	28	6	8-3/16	24	110
18	18 1/2	27	26 3/4	2	1	9	31	6	8-3/16	26	125
20	20 1/2	29	31	3	1 1/2	10	35	6	8-3/8	28	140
24	24 1/2	33	34 3/4	3	1 1/2	11	42	6	8-3/8	32	175
27	27 3/4	36 1/4	38 1/2	3	1 1/2	13 1/2	47	6	12-3/8	35 1/4	210
30	30 3/4	39 1/4	41 3/4	3	1 1/2	15	52	6	12-3/8	38 1/4	225
36	36 3/4	45 1/4	49 1/4	3	1 1/2	18	62	6	12-3/8	44 1/4	325
42	42 3/4	51 1/4	57	3	1 1/2	20 1/2	73	6	12-1/2	50 1/4	425
48	49	61 1/2	63 1/2	4	2	23	84	6	12-1/2	60 1/2	560
54	55	67 1/2	70	4	2	26 1/2	94	6	12-1/2	66 1/2	690
60	61	73 1/2	78 1/2	4	2	30	104	6	12-1/2	72 1/2	825

All Dimensions in Inches — All Weights in Lbs.



Motor H.P.	Size	Motor Speed	CAPACITY — Cubic Feet Per Minute					PEAK B.H.P.	
			F.D.	1/16" S.P.	1/8" S.P.	1/4" S.P.	3/8" S.P.		1/2" S.P.
1/8	12-6/6-2L-30°	1150	780	660	540	—	—	—	.05
1/8	12-6/6-2L-45°	1150	1100	940	880	—	—	—	.08
1/6	12-6/6-2L-35°	1750	1350	1300	1250	1110	—	—	.10
1/6	12-6/6-2L-45°	1750	1710	1640	1570	1420	—	—	.16
1/8	14-6/6-2L-30°	1150	1030	930	830	—	—	—	.03
1/8	14-6/6-2L-45°	1150	1540	1410	1280	—	—	—	.06
1/6	14-3/6-2L-35°	1750	1640	1500	1370	1150	—	—	.09
1/6	14-6/6-2L-35°	1750	1980	1860	1750	1580	1350	—	.16
1/4	14-6/6-2L-45°	1750	2340	2280	2210	2030	1830	—	.25
1/8	16-4/8-3L-35°	1150	2090	1960	1640	—	—	—	.08
1/6	16-8/8-3L-40°	1150	2500	2370	2140	1730	—	—	.16
1/4	16-8/8-3L-45°	1150	2820	2600	2460	2000	—	—	.22
1/4	16-4/8-3L-30°	1750	2460	2370	2270	2050	1680	—	.20
1/3	16-4/8-3L-35°	1750	2820	2680	2550	2370	2000	—	.30
1/2	16-8/8-3L-35°	1750	3050	2940	2820	2640	2460	2270	.46
1/8	18-4/8-3L-30°	1150	2390	2170	1930	—	—	—	.09
1/6	18-8/8-3L-30°	1150	2760	2590	2400	2030	—	—	.16
1/4	18-8/8-3L-40°	1150	3220	3040	2850	2440	—	—	.25
1/3	18-8/8-3L-45°	1150	3590	3410	3170	2710	—	—	.31
1/3	18-4/8-3L-30°	1750	3800	3650	3500	3200	2900	2300	.33
1/2	18-4/8-3L-35°	1750	4400	4250	4100	3700	3300	2800	.50
1/6	20-4/8-3L-35°	1150	3500	3180	2950	2180	—	—	.16
1/4	20-4/8-3L-40°	1150	3800	3470	3180	2470	—	—	.21
1/3	20-8/8-3L-40°	1150	4270	4000	3750	3230	—	—	.33
1/2	20-8/8-3L-45°	1150	4650	4470	4180	3700	—	—	.42
1/2	20-4/8-3L-30°	1750	4800	4800	4400	4100	3700	3200	.44
3/4	20-4/8-3L-35°	1750	5300	5150	5000	4600	4200	3700	.61
1	20-4/8-3L-45°	1750	6300	6150	6000	5700	5200	4400	1.00
1/6	24-5/20-3L-30°	860	4050	3840	3480	—	—	—	.14
1/4	24-10/20-3L-30°	860	4100	3900	3700	3100	—	—	.25
1/3	24-5/20-3L-40°	860	5500	5200	4900	—	—	—	.30
1/2	24-10/20-3L-40°	860	5600	5300	5200	4600	—	—	.45
3/4	24-10/20-3L-45°	860	5900	5800	5600	5200	—	—	.57
1/3	24-5/20-3L-30°	1150	5500	5300	5700	4400	3640	—	.33
1/2	24-5/20-3L-35°	1150	6400	6200	6000	5500	4900	—	.50
3/4	24-5/20-3L-40°	1150	7200	7050	6900	6300	5750	—	.68
1	24-5/20-3L-45°	1150	7800	7600	7400	7000	6400	—	.84
1/3	27-5/20-3L-30°	860	6000	5700	5300	3800	—	—	.28
1/2	27-10/20-3L-30°	860	6100	5900	5700	5000	4000	—	.42
3/4	27-10/20-3L-35°	860	7200	7000	6800	6100	5300	—	.61
1	27-10/20-3L-45°	860	8700	8510	8300	7900	6900	—	.95
3/4	27-5/20-3L-30°	1150	8000	7800	7600	6900	6050	4800	.68
1	27-5/20-3L-35°	1150	9400	9200	9000	8400	7700	6700	.80
1/2	30-5/20-3L-30°	860	6900	6600	6200	5400	—	—	.45
3/4	30-10/20-3L-30°	860	7000	6800	6600	6100	5300	3600	.67
1	30-10/20-3L-35°	860	8300	8150	8000	7400	6600	5700	.90
1 1/2	30-10/20-3L-45°	860	10100	9900	9700	9200	8400	7000	1.50
1 1/2	30-5/20-3L-35°	1150	11000	10800	10600	10100	9600	8700	1.30
2	30-5/20-3L-40°	1150	12300	12100	11900	11400	10800	10100	1.80
1/2	36A-62	700	10680	—	8820	—	—	—	.51
3/4	36-62	860	11480	—	9710	7175	—	—	.64
1	36A-62	860	13160	—	11750	9950	7300	—	1.03
1 1/2	36-62	1150	15525	—	14310	12870	11150	—	1.55
1 1/2	36-4D-18°	860	15000	—	14600	12600	12300	10800	1.45
2	36-4D-23°	860	18000	—	17100	15900	14800	13200	1.90
3	36-4D-16°	1150	19500	—	18700	18000	17200	16400	2.96
3/4	42-62	700	14780	—	12200	—	—	—	1.00
1 1/2	42A-62	700	16700	—	14550	11700	—	—	1.45
1 1/2	42-62	860	18200	—	16240	13750	10100	—	1.90
2.0	42A-62	860	20550	—	18900	16950	14500	10960	2.12
3.0	42B-62	860	22700	—	21200	19600	17800	15500	2.80
3.0	42-4D-22°	860	25000	—	24000	23000	21500	19000	2.94
3.0	42-4D-11°	1150	21500	—	21200	20900	20200	19000	3.00
2.0	48A-62	700	24600	—	22100	19150	15200	—	2.04
3.0	48-62	860	27200	—	25000	22400	19200	14500	2.80
1.0	48-4D-10°	700	17000	—	15500	14000	12000	9000	.96
1.5	48-4D-15°	700	22000	—	20000	18000	16000	12000	1.43
2.0	48-4D-20°	700	27000	—	25000	23000	20000	16000	1.97
3.0	48-4D-25°	700	32000	—	29500	27500	24500	20500	2.92
2.0	48-4D-11°	860	22000	—	21000	19500	18000	15500	2.00
3.0	54-62	700	31430	—	28350	24500	19450	—	2.61
5.0	54B-62	700	37500	—	35000	32400	29000	25300	4.60
5.0	54-62	860	38700	—	36250	33450	30300	26400	4.78
2.0	54-4D-14°	700	28000	—	26000	23000	20000	16000	1.90
3.0	54-4D-19°	700	35000	—	33000	30000	27000	22000	2.96
3.0	54-4D-12°	860	29000	—	28000	27000	24500	22500	3.00
5.0	54-4D-18°	860	42000	—	39000	37500	35500	32500	4.60
5.0	60-62	700	43100	—	39750	35700	30900	24200	4.51
2.0	60-4D-12°	700	35000	—	32000	28000	24000	17000	2.00
3.0	60-4D-16°	700	42000	—	38000	34000	30000	24000	2.98
5.0	60-4D-15°	860	49000	—	46000	42000	38000	35000	5.00

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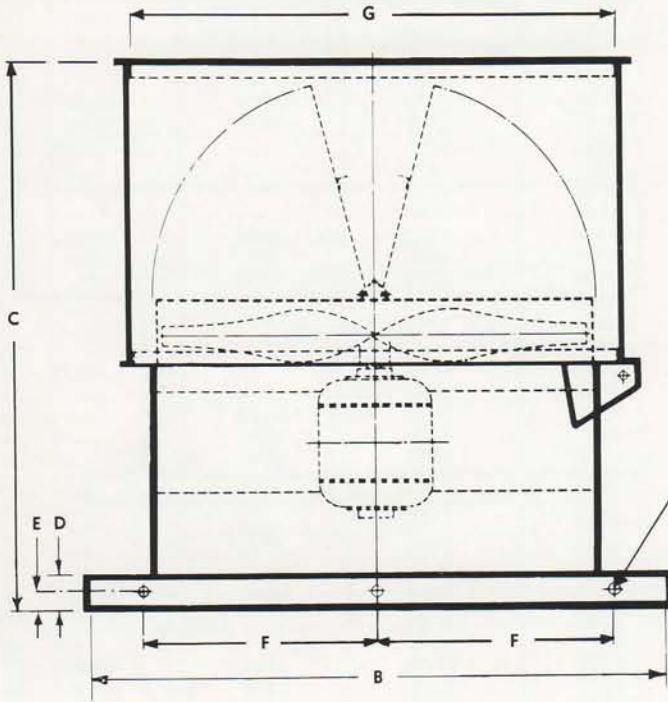
VR UNIT

EXHAUST

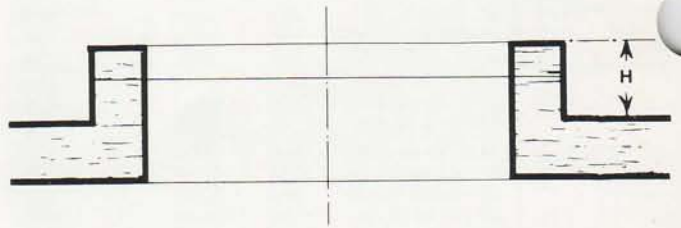
D4700

Performance Ratings

60 CYCLE MOTOR SPEEDS
 Size symbol explanation: First number denotes fan size — remaining numbers indicate wheel type and blade angle.



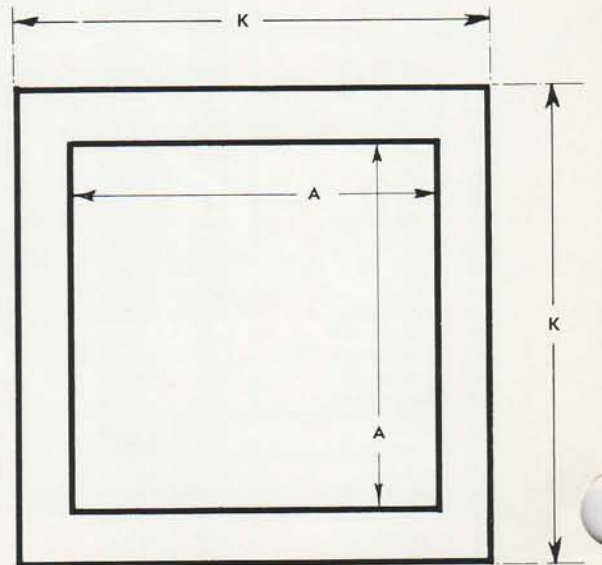
J - No. and Size of Lag Screws



FR.

Fan Size	A	B	C	D	E	F	G	H	J	K	Wt.
12	12 1/2	21	21 3/4	2	1	6	18	6	8-5/16	20	85
14	14 1/2	23	21 3/4	2	1	7	18	6	8-5/16	22	90
16	16 1/2	25	24 1/4	2	1	8	20	6	8-5/16	24	115
18	18 1/2	27	26 3/4	2	1	9	22	6	8-5/16	26	135
20	20 1/2	29	30 3/4	3	1 1/2	10	24	6	8-3/8	28	150
24	24 1/2	33	35 1/4	3	1 1/2	11	28	6	8-3/8	32	190
27	27 3/4	36 1/4	38 3/4	3	1 1/2	13 1/2	31 1/2	6	12-3/8	35 1/4	225
30	30 3/4	39 1/4	41 3/4	3	1 1/2	15	34 1/2	6	12-3/8	38 1/4	245
36	36 3/4	45 1/4	49 1/4	3	1 1/2	18	42	6	12-3/8	44 1/4	315
42	42 3/4	51 1/4	57 3/8	3	1 1/2	20 1/2	48	6	12-1/2	50 1/4	450
48	49	61 1/2	63 3/8	4	2	23	54	6	12-1/2	60 1/2	590
54	55	67 1/2	70 3/8	4	2	26 1/2	60	6	12-1/2	66 1/2	720
60	61	73 1/2	77 3/8	4	2	30	66	6	12-1/2	72 1/2	850

All Dimensions in Inches — All Weights in Lbs.



Motor H.P.	Size	Motor Speed	CAPACITY — Cubic Feet Per Minute						PEAK B.H.P.
			F.D.	1/16" S.P.	1/8" S.P.	1/4" S.P.	3/8" S.P.	1/2" S.P.	
1/8	12-6/6-2L-30°	1150	780	660	540	—	—	—	.05
1/8	12-6/6-2L-45°	1150	1100	940	880	—	—	—	.08
1/6	12-6/6-2L-35°	1750	1350	1300	1250	1110	—	—	.10
1/6	12-6/6-2L-45°	1750	1710	1640	1570	1420	—	—	.16
1/8	14-6/6-2L-30°	1150	1030	930	830	—	—	—	.03
1/8	14-6/6-2L-45°	1150	1540	1410	1280	—	—	—	.06
1/6	14-3/6-2L-35°	1750	1640	1500	1370	1150	—	—	.09
1/6	14-6/6-2L-35°	1750	1980	1860	1750	1580	1350	—	.16
1/4	14-6/6-2L-45°	1750	2340	2280	2210	2030	1830	—	.25
1/8	16-4/8-3L-35°	1150	2090	1960	1640	—	—	—	.08
1/6	16-8/8-3L-40°	1150	2500	2370	2140	1730	—	—	.16
1/4	16-8/8-3L-45°	1150	2820	2600	2460	2000	—	—	.22
1/4	16-4/8-3L-30°	1750	2460	2370	2270	2050	1680	—	.20
1/3	16-4/8-3L-35°	1750	2820	2680	2550	2370	2000	—	.30
1/2	16-8/8-3L-35°	1750	3050	2940	2820	2640	2460	2270	.46
1/8	18-4/8-3L-30°	1150	2390	2170	1930	—	—	—	.09
1/6	18-8/8-3L-30°	1150	2760	2590	2400	2030	—	—	.16
1/4	18-8/8-3L-40°	1150	3220	3040	2850	2440	—	—	.25
1/3	18-8/8-3L-45°	1150	3590	3410	3170	2710	—	—	.31
1/3	18-4/8-3L-30°	1750	3800	3650	3500	3200	2900	2300	.33
1/2	18-4/8-3L-35°	1750	4400	4250	4100	3700	3300	2800	.50
1/6	20-4/8-3L-35°	1150	3500	3180	2950	2180	—	—	.16
1/4	20-4/8-3L-40°	1150	3800	3470	3180	2470	—	—	.21
1/3	20-8/8-3L-40°	1150	4270	4000	3750	3230	—	—	.33
1/2	20-8/8-3L-45°	1150	4650	4470	4180	3700	—	—	.42
1/2	20-4/8-3L-30°	1750	4800	4800	4400	4100	3700	3200	.44
3/4	20-4/8-3L-35°	1750	5300	5150	5000	4600	4200	3700	.61
1	20-4/8-3L-45°	1750	6300	6150	6000	5700	5200	4400	1.00
1/6	24-5/20-3L-30°	860	4050	3840	3480	—	—	—	.14
1/4	24-10/20-3L-30°	860	4100	3900	3700	3100	—	—	.25
1/3	24-5/20-3L-40°	860	5500	5200	4900	—	—	—	.30
1/2	24-10/20-3L-40°	860	5600	5300	5200	4600	—	—	.45
3/4	24-10/20-3L-45°	860	5900	5800	5600	5200	—	—	.57
1/3	24-5/20-3L-30°	1150	5500	5300	5700	4400	3640	—	.33
1/2	24-5/20-3L-35°	1150	6400	6200	6000	5500	4900	—	.50
3/4	24-5/20-3L-40°	1150	7200	7050	6900	6300	5750	—	.68
1	24-5/20-3L-45°	1150	7800	7600	7400	7000	6400	—	.84
1/3	27-5/20-3L-30°	860	6000	5700	5300	3800	—	—	.28
1/2	27-10/20-3L-30°	860	6100	5900	5700	5000	4000	—	.42
3/4	27-10/20-3L-35°	860	7200	7000	6800	6100	5300	—	.61
1	27-10/20-3L-45°	860	8700	8510	8300	7900	6900	—	.95
3/4	27-5/20-3L-30°	1150	8000	7800	7600	6900	6050	4800	.68
1	27-5/20-3L-35°	1150	9400	9200	9000	8400	7700	6700	.80
1/2	30-5/20-3L-30°	860	6900	6600	6200	5400	—	—	.45
3/4	30-10/20-3L-30°	860	7000	6800	6600	6100	5300	3600	.67
1	30-10/20-3L-35°	860	8300	8150	8000	7400	6600	5700	.90
1 1/2	30-10/20-3L-45°	860	10100	9900	9700	9200	8400	7000	1.50
1 1/2	30-5/20-3L-35°	1150	11000	10800	10600	10100	9600	8700	1.30
2	30-5/20-3L-40°	1150	12300	12100	11900	11400	10800	10100	1.80
1/2	36A-62	700	10680	—	8820	—	—	—	.51
3/4	36-62	860	11480	—	9710	7175	—	—	.64
1	36A-62	860	13160	—	11750	9950	7300	—	1.03
1 1/2	36-62	1150	15525	—	14310	12870	11150	—	1.55
1 1/2	36-4D-18°	860	15000	—	14600	12600	12300	10800	1.45
2	36-4D-23°	860	18000	—	17100	15900	14800	13200	1.90
3	36-4D-16°	1150	19500	—	18700	18000	17200	16400	2.96
3/4	42-62	700	14780	—	12200	—	—	—	1.00
1 1/2	42A-62	700	16700	—	14550	11700	—	—	1.45
1 1/2	42-62	860	18200	—	16240	13750	10100	—	1.90
2.0	42A-62	860	20550	—	18900	16950	14500	10960	2.12
3.0	42B-62	860	22700	—	21200	19600	17800	15500	2.80
3.0	42-4D-22°	860	25000	—	24000	23000	21500	19000	2.94
3.0	42-4D-11°	1150	21500	—	21200	20900	20200	19000	3.00
2.0	48A-62	700	24600	—	22100	19150	15200	—	2.04
3.0	48-62	860	27200	—	25000	22400	19200	14500	2.80
1.0	48-4D-10°	700	17000	—	15500	14000	12000	9000	.96
1.5	48-4D-15°	700	22000	—	20000	18000	16000	12000	1.43
2.0	48-4D-20°	700	27000	—	25000	23000	20000	16000	1.97
3.0	48-4D-25°	700	32000	—	29500	27500	24500	20500	2.92
2.0	48-4D-11°	860	22000	—	21000	19500	18000	15500	2.00
3.0	54-62	700	31430	—	28350	24500	19450	—	2.61
5.0	54B-62	700	37500	—	35000	32400	29000	25300	4.60
5.0	54-62	860	38700	—	36250	33450	30300	26400	4.78
2.0	54-4D-14°	700	28000	—	26000	23000	20000	16000	1.90
3.0	54-4D-19°	700	35000	—	33000	30000	27000	22000	2.96
3.0	54-4D-12°	860	29000	—	28000	27000	24500	22500	3.00
5.0	54-4D-18°	860	42000	—	39000	37500	35500	32500	4.60
5.0	60-62	700	43100	—	39750	35700	30900	24200	4.51
2.0	60-4D-12°	700	35000	—	32000	28000	24000	17000	2.00
3.0	60-4D-16°	700	42000	—	38000	34000	30000	24000	2.98
5.0	60-4D-15°	860	49000	—	46000	42000	38000	35000	5.00

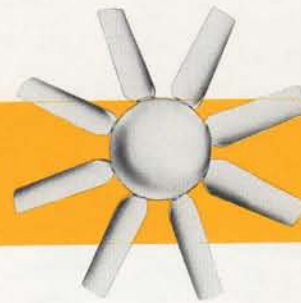
Performance Requirements Determine Wheel Type



Multiwing
Polypropylene



Two Bladed Wheels
Type 62
Cast Aluminum



Adjustafoil
Cast Aluminum

Centrifugal Fan Type Ventilator Type CS

This Sheldon Ventilator is recommended for applications where a very low sound rating is required, or when higher resistances are to be overcome and where extensive duct work is to be used. For complete data and specifications refer to Sheldons Catalogue No. 6004A.



Spun Aluminum Ventilator Type SR2

For complete data and specifications refer to Sheldons Catalogue No. 6008.



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