

Operating Principle and Application

The aspirated gas flows through the compression chamber along a helical trajectory and is repeatedly accelerated by the centrifugal thrust of the impeller.

Consequently, higher pressure will be obtained at the discharge slot.

The impeller mounted directly on the motor shaft is rotating smoothly without friction and thus no lubrication is necessary. The pressure difference of course remains steady.

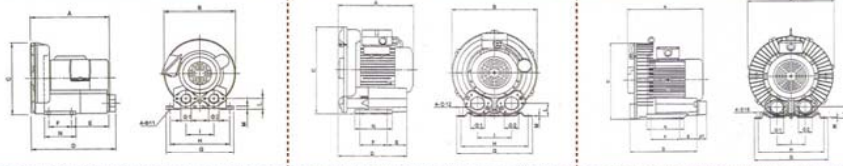
The Side Channel Blowers are widely used on : Pneumatic conveying systems / Textile machines / printing machines / PCB process / Dust collection / Fish ponds / SPA / Dental suction devices / Paper sorting and delivery / Lifting and holding / Packaging machines.

Features and Advantages

- Casing (except SC80) and impellers are made of aluminum alloy and have excellent features on mechanic strength durability light weight and smooth exterior.
- SC series Side Channel Blowers are designed to comply with the safety requirements of IEC / UL / CSA and have attained their Type Approval.
- SC series Side Channel Blowers are designed with thermal protection function
- Meet CE Norm : 89/336 , 73/23 , EN60204-1 , EN50081-2 , EN50082-2.
- Degree of protection : IP54 / IP55
- Insulation class : F (155 C)
- Voltage range : 1 Phase, 100-120 / 200-240 VOLT
1 Phase, 108-120 / 216-240 CSA/UL
3 Phase, 200-240 / 380-440 VOLT
3 Phase, 208-240 / 416-480 VOLT CSA/UL
- Frequency : 50 / 60 Hz
- Installation : Any aspect. (except SC20,30)

Dimensions

Model	A	B	C	D	E	F	G	H	I	L	M	N	φ1	φ2	Weight kg
SC20-S	255	228	238	240	87	76	212	190	90	34	12	100	G1"	G1"	10.0
SC30-S	256	250	257	279	117	83	230	205	100	38	12	110	G1 1/4"	G1 1/4"	13.0
SC40-4	261	286	303	238	68	95	255	225	115	46	3	130	G1 1/2"	G1 1/2"	15.5
SC40-S	261	286	303	238	68	95	255	255	115	46	3	130	G1 1/2"	G1 1/2"	16.0
SC40-6	281	286	303	238	68	95	255	255	115	46	3	130	G1 1/2"	G1 1/2"	18.2
SC50-S	317	333	345	389	143	115	296	260	120	48	4	155	G2"	G2"	22.5
SC50-6	317	333	345	389	143	115	296	260	120	48	4	155	G2"	G2"	26.0
SC60-S	364	382	383	426	129	140	325	290	125	53	4.5	180	G2"	G2"	36.0
SC60-6	364	382	383	426	129	140	325	290	125	53	4.5	180	G2"	G2"	37.3
SC60-7	394	382	383	426	129	140	325	290	125	53	4.5	180	G2"	G2"	41.5
SC80-S	479	466	498	477	179	280	420	365	145	81	24	318	G2 1/2"	G2 1/2"	120
SC80-6	479	466	498	477	179	280	420	365	145	81	24	318	G2 1/2"	G2 1/2"	123
SC80-4	479	466	498	477	179	280	420	365	145	81	24	318	G2 1/2"	G2 1/2"	117



SC20-.../SC30-...

SC40-...

SC50-.../SC60-.../SC80-...



Specification and Operation Diagram

Blowers with 50 Hz - 60 Hz

Model	Phase	Voltage	Hz	Rated Output KW	Rated Current Amps	Max. Pressure mbar	Max. Airflow m ³ /h	Noise Level dB(A)
SC20-512			50 Hz	0.22	2.2-2.3 / 1.15-1.18	+65	52	64
			60 Hz	0.28	3.4-3 / 1.73-1.6	+85	66	65
SC30-512			50 Hz	0.38	3.7-3.6 / 1.81-1.79	+100	75	69
			60 Hz	0.42	5.5-4.7 / 2.8-2.36	+140	96	68
SC40-512	Single	100 - 120 / 200 - 240	50 Hz	0.80	11.5-12.5 / 5.8-6.4	+160	144	69
			60 Hz	0.90	16.4-12.8 / 8.2-6.5	+160	180	72
SC40-612			50 Hz	1.10	15-14.6 / 7.5-7.4	+190	144	69
			60 Hz	1.30	17.7-13.9 / 8.7-7	+210	180	72
SC50-512			50 Hz	1.50	20-17.7 / 9.5-8.9	+200	210	72
			60 Hz	1.75	22.3-17.3 / 10.7-8.3	+170	250	73
SC20-522			50 Hz	0.22	0.75-0.84 / 0.44-0.51	+65	52	64
			60 Hz	0.28	1.0-0.93 / 0.55-0.53	+85	66	65
SC30-522			50 Hz	0.38	1.72-2.41 / 1.1-1.56	+100	75	69
			60 Hz	0.42	1.93-1.93 / 1.08-1.18	+140	96	68
SC40-422			50 Hz	0.76	3.6-4.85 / 2.2-3.23	+140	144	69
			60 Hz	0.93	4.1-3.64 / 2.1-2.44	+135	180	72
SC40-522			50 Hz	0.90	4.3-4.8 / 2.53-3.25	+180	144	69
			60 Hz	1.15	5-4.45 / 2.63-2.53	+180	180	72
SC40-622			50 Hz	1.10	4.8-5.53 / 2.8-3.7	+200	144	69
			60 Hz	1.50	6.2-5.3 / 3.3-3.1	+230	180	72
SC50-522	Three	380 - 440	50 Hz	1.50	7.44-8.76 / 4.36-6	+220	210	72
			60 Hz	1.75	8.2-7.3 / 4.38-4.27	+200	250	73
SC50-622	Δ-Y		50 Hz	2.20	8.67-9.45 / 4.95-6.24	+270	210	72
			60 Hz	2.55	10-8.8 / 5.3-4.84	+270	250	73
SC60-522			50 Hz	2.20	10.8-10.9 / 5.8-6.7	+220	306	76
			60 Hz	2.55	11.7-10.3 / 6.4-6	+200	370	78
SC60-622			50 Hz	3.00	13.1-13.6 / 7.3-8.5	+280	306	76
			60 Hz	3.45	15.7-13.4 / 8.7-7.4	+270	370	78
SC60-722			50 Hz	4.00	14.7-14.8 / 8.2-9	+340	306	76
			60 Hz	4.60	18.7-15.4 / 9.5-8.6	+330	370	78
SC80-4B2		200 - 240 / 345 - 416 (50Hz)	50 Hz	4.00	17.3-16.5 / 10.9-9.3	+230	510	73
			60 Hz	4.60	22.8-17.8 / 12.4-10	+230	600	79
SC80-5B2		208 - 275 / 380 - 480 (60Hz)	50 Hz	5.50	21.8-21.7 / 12.6-12.3	+300	510	73
			60 Hz	6.30	26.1-21.8 / 14.1-12.4	+280	600	79
SC80-6B2			50 Hz	7.50	28.1-30.9 / 16-17.4	+400	510	73
			60 Hz	8.60	36.4-32.6 / 20.5-18.8	+450	600	79

