
SANCO
Ring Blower

SC Series

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.

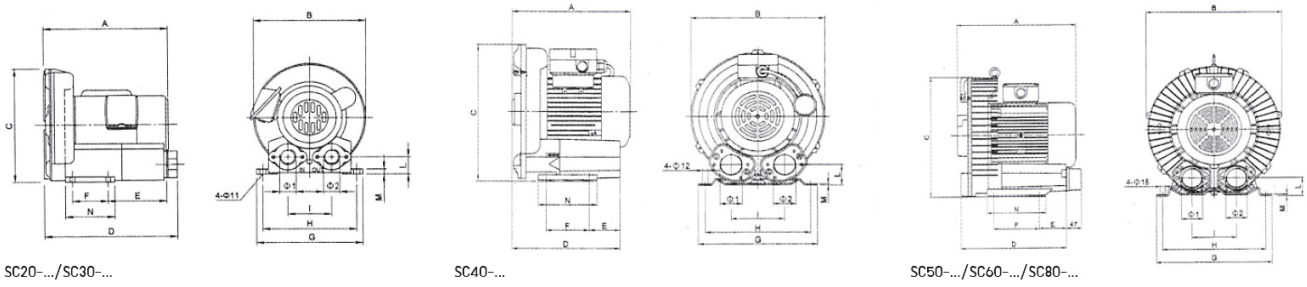
The side Channel Blowers are widely used on : Pneumatic conveying system / Textile machines / printing machine / PCB process / Dust collection / Fish ponds / SPA / Dental suction devices / Paper sorting and delivery / Lifting and holding / Packaging machines

Feature 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 Chanel 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 (some models, contact sales person for more information)
- Insulation class : F (155C)
- Voltage range : 1 Phase, 100-120 / 200-240 VOLT
  2 Phase, 108-120 / 216-240 CSA / UL
  3 Phase, 200-240 / 380-440 VOLT
  3 Phase, 208-240 / 416-480 CSA / UL
- Frequency : 50 / 60 Hz
- Installation : Any aspect. (except SC20,30)

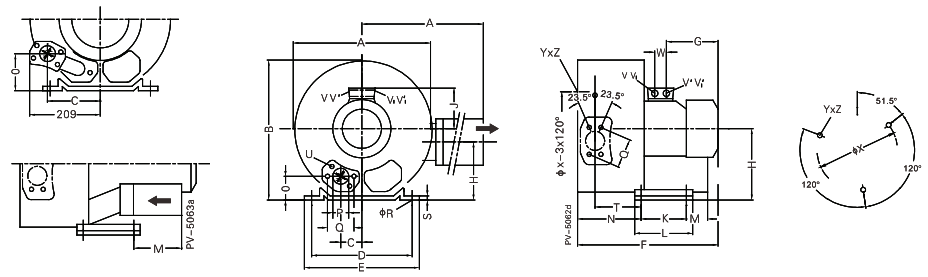
Dimensions

Model	A	B	C	D	E	F	G	H	I	L	M	N	ø1	ø2	Weight Kgs.
SC20-5..	255	228	238	240	87	79	212	190	90	34	12	100	G 1 ″	G 1 ″	10
SC30-5..	256	250	257	279	117	83	230	205	100	38	12	110	G 1 ″ 1/4	G 1 ″ 1/4	13
SC40-4..	261	286	303	238	68	95	255	225	115	46	3	130	G 1 ″ 1/2	G 1 ″ 1/2	15.5
SC40-5..	261	286	303	238	68	95	255	255	115	46	3	130	G 1 ″ 1/2	G 1 ″ 1/2	16
SC40-6..	281	286	303	238	68	95	255	255	115	46	3	130	G 1 ″ 1/2	G 1 ″ 1/2	18.2
SC50-5..	317	333	345	389	143	115	296	260	120	48	4	155	G 2 ″	G 2 ″	23.5
SC50-6..	317	333	345	389	143	116	296	260	120	48	4	155	G 2 ″	G 2 ″	26
SC60-5..	364	382	383	426	129	140	325	290	125	53	4.5	180	G 2 ″	G 2 ″	36
SC60-6..	364	382	383	426	129	140	325	290	125	53	4.5	180	G 2 ″	G 2 ″	37.3
SC60-7..	394	382	383	426	129	140	325	290	125	53	4.5	180	G 2 ″	G 2 ″	41.5
SC80-5..	479	466	498	477	179	280	420	365	145	81	24	318	G 2 1/2 ″	G 2 1/2 ″	120
SC80-6..	479	466	498	477	179	280	420	365	145	81	24	318	G 2 1/2 ″	G 2 1/2 ″	123
SC80-4..	479	466	498	477	179	280	420	365	145	81	24	318	G 2 1/2 ″	G 2 1/2 ″	117



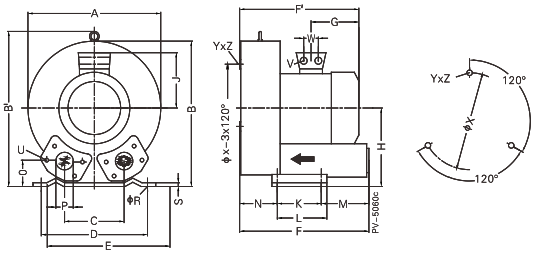
SC20-.../SC30-... SC40-... SC50-.../SC60-.../SC80-...

Dimensions



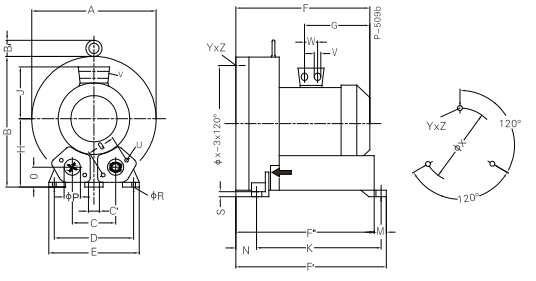
SC520-...

Model	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	ϕP	Q	ϕR	S	T	U	V	V'	V_1	V'_1	ϕX	Y×Z	X-Holes	W	Weight Kgs.
SC520-040	372	411	371	60	260	295	499	224	175	144	135	115	155	98	171	48	55	83	14	4	116	M8×17	M32×1.5	M32×1.5	M32×1.5	M32×1.5	200	M8×20	51.5°/171.5°/291.5°	42	



SC810-.../SC830-...

Model	A	A'	B	B'	C	D	E	F	F'	G	H	H'	J	K	L	M	N	N'	O	ϕP	ϕR	S	V	W	ϕX	Y×Z	X-Holes	Weight Kgs.
SC810-055	451	–	461	509	152	356	433	433	477	247	240	–	148	170	217	140	124	–	65	65	15	6	4×M32×1.5	42	286	M12×20	0°/120°/240°	
SC810-075	451	–	461	509	152	356	433	433	477	247	240	–	148	170	217	140	124	–	65	65	15	6	4×M32×1.5	42	286	M12×20	0°/120°/240°	
SC830-076	451	–	461	509	152	356	449	449	492	247	240	–	167	170	217	140	139	–	65	65	15	6	4×M32×1.5	42	286	M12×20	0°/120°/240°	



SC910-...

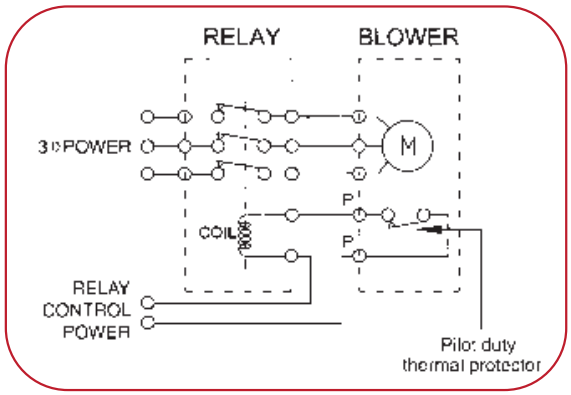
Model	A	B	B'	C	C'	D	E	F	F'	F"	G	H	J	K	M	N	O	ϕP	Q	ϕR	S	U	V	W	ϕX	Y×Z	X-Holes	Weight Kgs.
SC910-085	550	569	55	207	15	360	415	525	644	605	268	300	167	533	39	89	92	100	150	15	21	M12×30	4×M32×1.5	42	490	M12×30	0°/120°/240°	
SC910-125	550	569	55	207	15	360	415	611	644	605	345	300	197	533	39	89	92	100	150	15	21	M12×30	4×M32×1.5	54	490	M12×30	0°/120°/240°	

Thermal protection

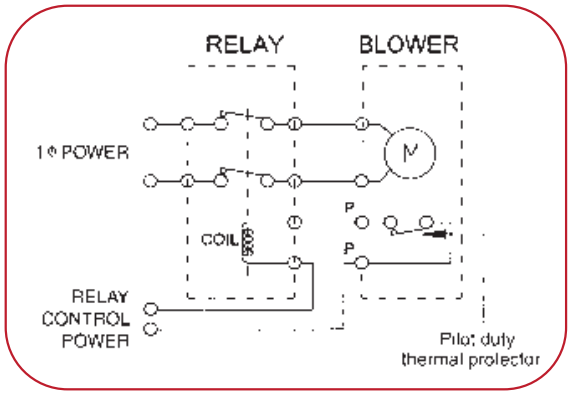
The following conditions must be considered.
Pilot duty thermal protection:

- For all SC-20/SC-30/SC-40/SC-50/SC-60/SC/80 series
- The thermal switch must be connected in series with a magnetic contactor coil.
- The magnetic contactor must be reset manually.

Recommended protector connection (3 ø)



Recommended protector connection (1 ø)



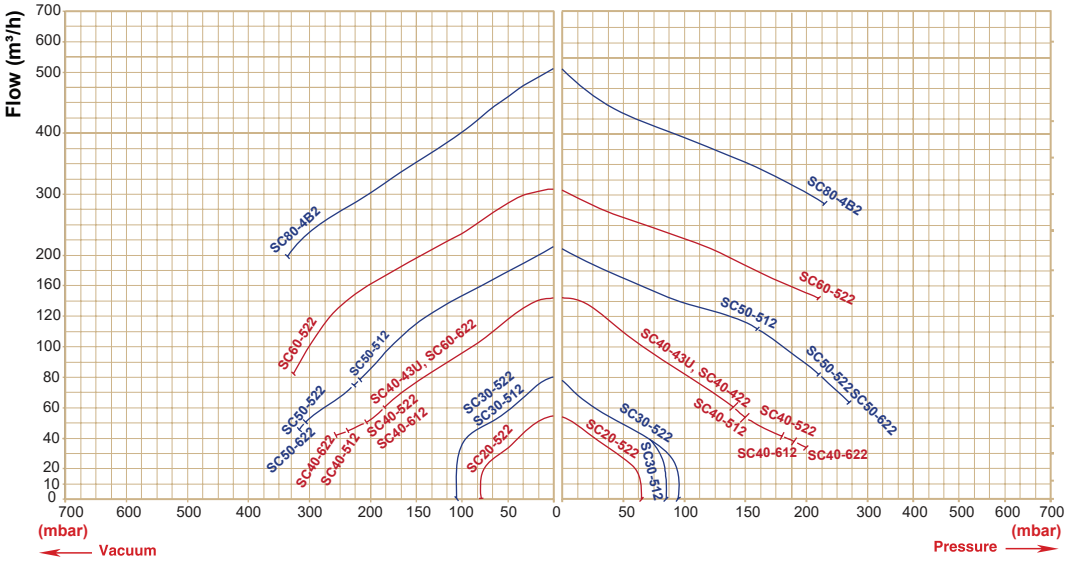
Blowers and Vacuum with 50 Hz - 60 Hz

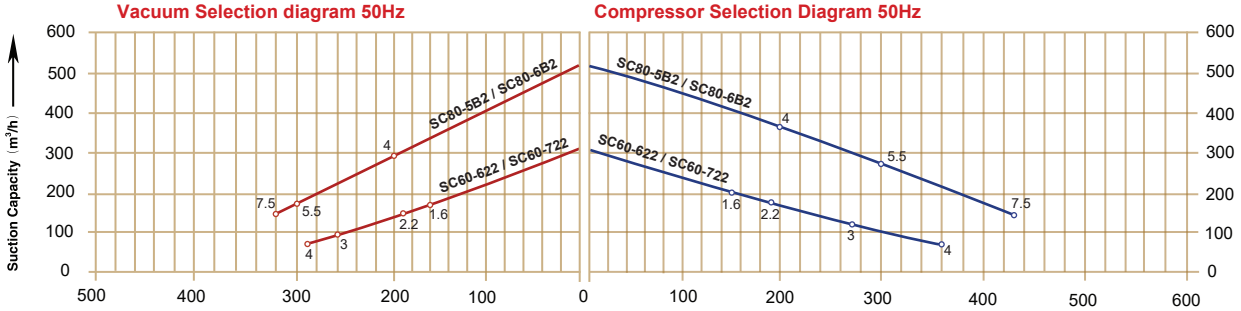
Model	Phase	Voltage	Hz	Rated KW	Blowers with 50 Hz - 60 Hz				Vacuum with 50 Hz - 60 Hz			
					Rated Current Amps	Max. mbar	Max. m³/h	Noise dB (A)	Rated Current Amps	Max. mbar	Max. m³/h	Noise dB (A)
SC30-512	Single	230	50 Hz	0.38	3.7-3.6 / 1.81-1.79	100	75	69	3.54-3.48 / 1.79-1.74	-92	74	69
			60 Hz	0.42	5.5-4.7 / 2.8-2.36	140	96	68	5.1-4.34 / 2.58-2.21	-125	90	68
SC40-512	Single	100-120/200-240	50 Hz	0.8	11.5-12.8 / 8.2-6.5	160	144	69	11.97-12.68 / 5.98-6.42	-150	144	69
			60 Hz	0.9	16.4-12.8 / 8.2-6.5	160	180	72	15.81-12.35 / 7.69-6.28	-160	170	72
SC40-612	Single	230	50 Hz	1.1	15-14.6 / 7.5-7.4	190	144	69	13.52-13.97 / 6.7-7.07	-170	144	69
			60 Hz	1.3	17.7-13.9 / 8.7-7	210	180	72	17.41-13.6 / 8.42-6.84	-190	170	72
SC50-512	Single	230	50 Hz	1.5	9	200	210	64	9	-190	210	64
			60 Hz	1.75	10	180	255	70	10	-180	255	70
SC20-522	Three	200-240/380-440	50 Hz	0.22	0.75-0.84 / 0.44-0.51	65	52	65	0.76-0.84 / 0.43-0.51	-60	58	65
			60 Hz	0.28	1.0-0.93 / 0.55-0.53	85	66	69	1.0-0.9 / 0.53-0.52	-78	66	69
SC30-522	Three	200-240/345-415	50 Hz	0.4	2.6 / 1.5	130	80	53	2.6 / 1.5	-120	80	53
		220-275/380-480	60 Hz	0.5	2.6 / 1.5	160	98	56	2.6 / 1.5	-150	98	56
SC40-43U	Three	208-275/416-480	50 Hz	0.76	5.9 / 2.95	140	144	69	5.9 / 2.95	-140	144	72
			60 Hz	0.93	4.0 / 2.0	135	180	72	4.0 / 2.0	-135	170	69
SC40-422	Three	200-240/345-415	50 Hz	0.85	4.2 / 2.4	160	145	63	4.2 / 2.4	-160	145	63
		220-275/380-480	60 Hz	0.95	4.0 / 2.3	160	175	64	4.0 / 2.3	-160	175	64
SC40-522	Three	200-240/380-440	50 Hz	0.9	4.3-4.8 / 2.53-3.25	180	144	72	4-4.66 / 2.4-3.2	-170	144	72
			60 Hz	1.15	5-4.45 / 2.63-2.53	180	180	69	4.75-4.3 / 2.61-2.55	-180	170	69
SC40-622	Three	200-240/345-415	50 Hz	1.1	4.8-5.53 / 2.8-3.7	200	144	72	4.5-5.35 / 2.65-3.6	-180	144	72
		200-275/380-480	60 Hz	1.5	6.2-5.3 / 3.3-3.1	230	180	69	5.66-5 / 3-2.91	-210	170	69

Blowers and Vacuum with 50 Hz - 60 Hz

Model	Phase	Voltage	Hz	Rated KW	Blowers with 50 Hz - 60 Hz				Vacuum with 50 Hz - 60 Hz			
					Rated Current Amps	Max. mbar	Max. m³/h	Noise dB (A)	Rated Current Amps	Max. mbar	Max. m³/h	Noise dB (A)
SC50-522	Three	200-240/345-415 200-275/380-480	50 Hz 60 Hz	1.5 1.75	7.44-8.76 / 4.36-6 8.2-7.3 / 4.38-4.27	220 200	210 250	72 73	6.72-8.52 / 4.07-5.94 7.4-6.77 / 4-3.99	-210 -200	210 230	72 73
SC50-622	Three	200-240/345-415 200-275/380-480	50 Hz 60 Hz	2.2 2.55	8.67-9.45 / 4.95-6.24 10-8.8 / 5.3-4.84	270 270	210 250	72 73	7.08-8.79 / 4.2-6.06 8.55-7.7 / 4.6-4.45	-220 -240	210 230	72 73
SC60-522	Three	400/690 460	50 Hz 60 Hz	2.2 2.55	10.8-10.9 / 5.8-6.7 11.7-10.3 / 6.4-6	220 200	306 370	76 78	10.1-10.5 / 5.5-6.5 11.6-99 / 6-5.6	-230 -220	306 370	76 78
SC60-622	Three	200-240/345-415 220-275/380-480	50 Hz 60 Hz	3.0 3.45	12.5 / 7.2 12.5 / 7.3	270 230	318 376	69 72	12.5 / 7.2 12.5 / 7.3	-260 -240	318 376	69 72
SC60-722	Three	345-415/600-690 380-480/660-720	50 Hz 60 Hz	4 4.6	9.5 / 5.5 9.5 / 5.5	360 310	318 376	69 72	9.5 / 5.5 9.5 / 5.5	-290 -320	318 376	69 72
SC80-4B2	Three	200-240/345-416 208-275/380-480	50 Hz 60 Hz	4 4.6	17.3-16.5 / 10-9.3 22.8-17.8 / 12.6-12.3	230 230	510 600	73 79	17.1-16.3 / 10-9.2 22.8-17.6 / 12.5-10.1	-240 -250	510 600	73 79
SC80-5B2	Three	345-415/600-720 380-480/660-720	50 Hz 60 Hz	5.5 6.3	12.9/7.4 12.9/7.45	300 280	530 620	70 74	12.9/7.4 12.9/7.45	-300 -300	530 620	70 74
SC80-6B2	Three	345-415/600-720 380-480/660-720	50 Hz 60 Hz	7.5 8.6	16.7/9.6 17.3/10.0	430 400	530 620	70 74	16.7/9.6 17.3/10.0	-320 -350	530 620	70 74
SC520-040	Three	345-415Δ/600-720 380-480Δ/660-720	50 Hz 60 Hz	4.0 4.6	10.0 Δ / 5.8Y 9.9 Δ / 5.71Y	440 480	230 275	72 74	10.0 Δ / 5.8Y 9.9 Δ / 5.71Y	-390 -410	230 275	72 74
SC810-055	Three	345-415Δ/600-720 380-480Δ/660-720	50 Hz 60 Hz	5.5 6.3	12.9 Δ / 7.4Y 12.9 Δ / 7.45Y	300 280	530 620	70 74	12.9 Δ / 7.4Y 12.9 Δ / 7.45Y	-300 -300	530 620	70 74
SC810-075	Three	345-415Δ/600-720 380-480Δ/660-720	50 Hz 60 Hz	7.5 8.6	16.7 Δ / 9.6Y 17.3 Δ / 10.0Y	430 400	530 620	70 74	16.7 Δ / 9.6Y 17.3 Δ / 10.0Y	-320 -350	530 620	70 74
SC830-076	Three	345-415Δ/600-720 380-480Δ/660-720	50 Hz 60 Hz	7.6 8.6	16.7 Δ / 9.6Y 17.3 Δ / 10.0Y	260 260	700 840	70 74	16.7 Δ / 9.6Y 17.3 Δ / 10.0Y	-270 -270	700 840	70 74
SC910-085	Three	- 380-480Δ/660-720	50 Hz 60 Hz	8.5 9.8	18.2 Δ / 10.5Y 18.2 Δ / 10.5Y	190 140	1050 1250	74 79	18.2 Δ / 10.5Y 18.2 Δ / 10.5Y	-190 -150	1050 1250	74 79
SC910-125	Three	345-415Δ/600-720 380-480Δ/660-720	50 Hz 60 Hz	12.5 14.5	28.0 Δ / 16.2Y 29.0 Δ / 16.7Y	280 260	1050 1250	74 79	28.0 Δ / 16.2Y 29.0 Δ / 16.7Y	-290 -270	1050 1250	74 79
SC1910-37	Three	345-415Δ/600-720 380-480Δ/660-720	50 Hz 60 Hz	18.5 21.3	37.0 Δ / 21.0Y 39.0 Δ / 22.5Y	460 420	1050 1250	74 79	37.0 Δ / 21.0Y 39.0 Δ / 22.5Y	-360 -380	1050 1250	74 79

CONTINUOUS OPERATION PERMITTED





INTRODUCTION

2SC Series

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 system/Textile machines/printing machine/ PCB process/Dust collection/Fish ponds/SPA/Dental suction devices/Paper sorting and delivery/Lifting and holding/ Packaging machines

Feature and Advantages

- 2SC series are Three Stage Side Channel Blower with durable up to 20,000 operating hours without maintenance down time.
- The noise level was kept impressively low, but SANCO is able to make it further quiet.
- Casing and impellers are made of aluminum alloy and have excellent features on mechanic strength, durability, light weight and smooth exterior.
- 2SC series are designed with thermal protector.
- Meet CE Norm :
  Machinery Directive 2006/42/EC,
  Low Voltage Directive 2014/35/EU,
  Electromagnetic Compatibility 2014/30/EU,
  EN ISO 12100: 2010, EN 60034-1: 2010,
  EN 60335-2-41:2003+A1:2004+A2:2010,
  EN 55014-1:2006+A1:2009+A2:2011,
  EN 55014-2:1997+A1:2001+A2:2008,
  EN 61000-3-2:2014, EN 61000-3-3:2013
- Degree of protection : IP55
- Insulation class : insulation class F
- Voltage range :
  1-phase, 115/230 V
  1-phase, 230 V
  3-phase, 185-225 V Δ /320-390VY
  3-phase, 200-240 V Δ /345-415VY
  3-phase, 345-415 V Δ
  3-phase, 380-480 V Δ
  3-phase, 575 V Δ
  Frequency : 50Hz / 60Hz

Installation : Any aspect

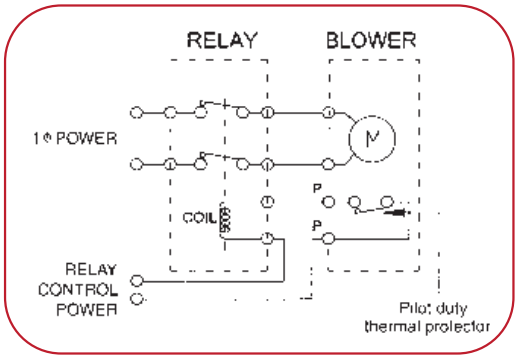
Thermal Protection

The following conditions must be considered.

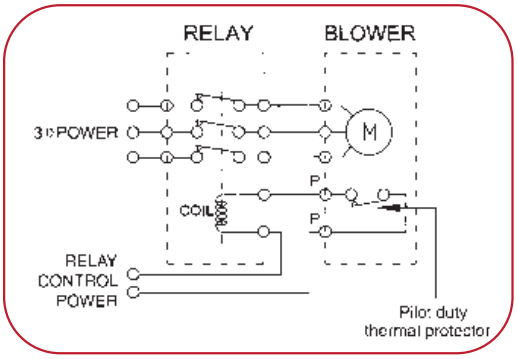
Pilot duty thermal protection :

- For all 2SC Series.
- The thermal switch must be connected in series with a magnetic contactor must be reset manually

Recommended protector connection (1Ø)



Recommended protector connection (3Ø)



2SC Series

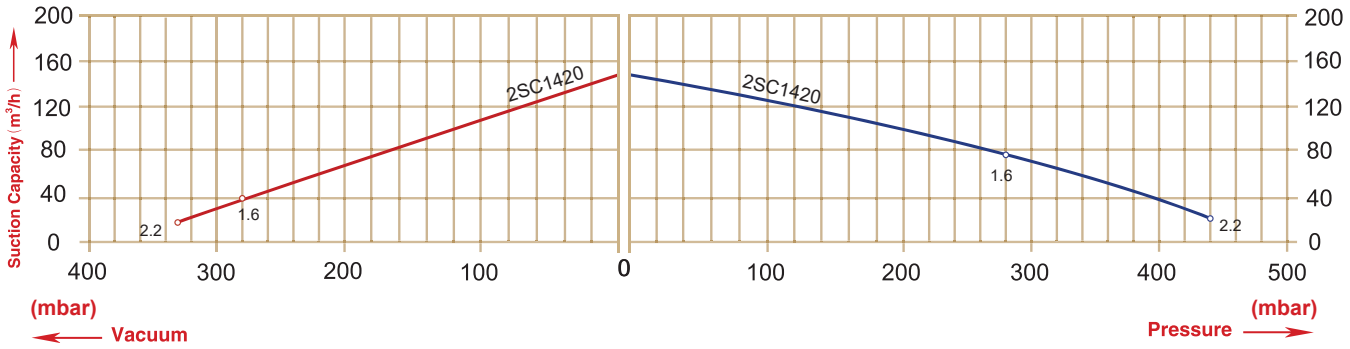
Blowers and Vacuum with 50 Hz - 60 Hz

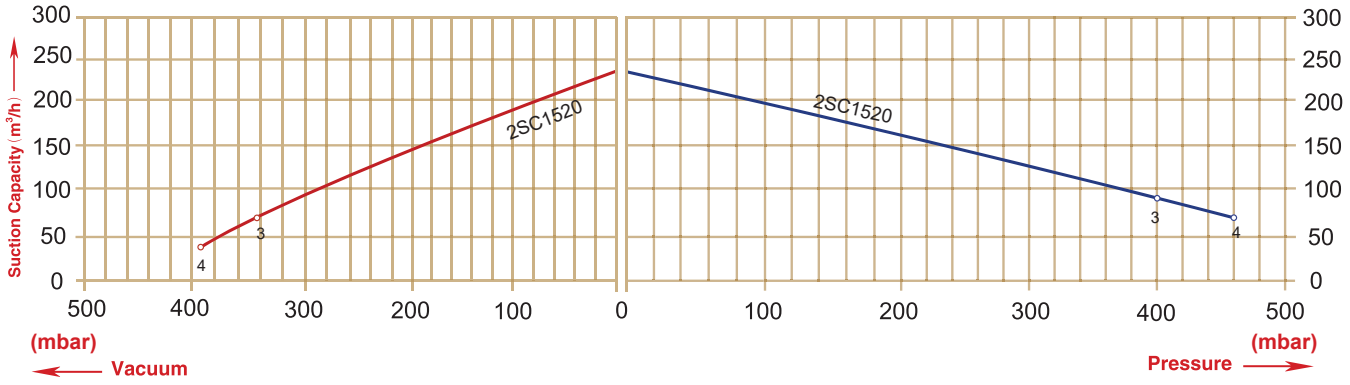
MODEL	MOTOR				Weight approx. Kg	Sound pressure dB(A)	Maximum m^3/h	Maximum vacuum mbar	Maximum pressure mbar
	Frequency Hz	rated							
		output KW	voltage V	current A					
2SC1420-36	50	1.6	200-240 Δ /345-415	7.5 Δ /4.3Y	25	66	150	-280	280
	60	2.05	220-275 Δ /380-480	7.6 Δ /4.4Y		69	180	-320	310
2SC1420-46	50	2.2	200-240 Δ /345-415	9.7 Δ /5.6Y	27	66	150	-330	420
	60	2.55	220-275 Δ /380-480	10.0 Δ /5.8Y		69	180	-350	440
2SC1520-46	50	3.0	200-240 Δ /345-415	12.5 Δ /7.2Y	40	72	230	-340	410
	60	3.45	220-275 Δ /380-480	12.6 Δ /7.3Y		74	275	-380	360
2SC1520-57	50	4.0	345-415 Δ /600-720	10.0 Δ /5.8Y	41	72	230	-390	440
	60	4.6	380-480 Δ /660-720	9.9 Δ /5.71Y		74	275	-410	480
2SC1720-16	50	2.2	200-240 Δ /345-415	9.7 Δ /5.6Y	43	58	320	-220	210
	60	2.55	220-275 Δ /380-480	10.3 Δ /6.0Y		60	380	-170	150
2SC1720-26	50	3.0	200-240 Δ /345-415	12.5 Δ /7.2Y	48	73	320	-280	260
	60	3.45	220-275 Δ /380-480	12.6 Δ /7.3Y		76	380	-230	200
2SC1720-37	50	4.3	345-415 Δ /600-720	10.0 Δ /5.2Y	54	73	320	-360	380
	60	4.8	380-480 Δ /660-720	10.4 Δ /6.0Y		76	380	-350	320
2SC1720-47	50	5.5	345-415 Δ /600-720	13.3 Δ /7.7Y	66	73	320	-440	500
	60	6.3	380-480 Δ /660-720	13.3 Δ /7.7Y		76	380	-440	500
2SC1720-57	50	7.5	345-415 Δ /600-720	16.7 Δ /9.6Y	73	73	320	-440	570
	60	8.6	380-480 Δ /660-720	17.3 Δ /10.0Y		76	380	-460	660
2SC1740-37	50	4.0	345-415 Δ /600-720	9.0 Δ /5.2Y	54	74	500	-150	140
	60	4.6	380-480 Δ /660-720	9.0 Δ /5.2Y		78	600	-100	90
2SC1740-47	50	5.5	345-415 Δ /600-720	13.3 Δ /7.7Y	69	74	500	-240	260
	60	6.3	380-480 Δ /660-720	13.3 Δ /7.7Y		78	600	-210	200
2SC1740-57	50	7.5	345-415 Δ /600-720	16.7 Δ /9.6Y	75	74	500	-240	320
	60	8.6	380-480 Δ /660-720	17.3 Δ /10.0Y		78	600	-270	300
2SC1820-17	50	5.5	345-415 Δ /600-720	13.3 Δ /7.7Y	83	74	520	-250	240
	60	6.3	380-480 Δ /660-720	13.3 Δ /7.7Y		78	620	-170	160
2SC1820-27	50	7.5	345-415 Δ /600-720	16.7 Δ /9.6Y	86	74	520	-400	400
	60	8.6	380-480 Δ /660-720	17.3 Δ /10.0Y		78	620	-360	330
2SC1820-37	50	11.0	345-415 Δ /600-720	28.0 Δ /16.2Y	104	74	520	-430	600
	60	12.6	380-480 Δ /660-720	29.0 Δ /16.7Y		78	620	-460	600
2SC1820-47	50	15.0	345-415 Δ /600-720	32.5 Δ /18.8Y	120	74	520	-460	670
	60	17.3	380-480 Δ /660-720	34.5 Δ /19.9Y		78	620	-490	750
2SC1840-27	50	7.5	345-415 Δ /600-720	16.7 Δ /9.6Y	91	74	900	-200	180
	60	8.6	380-480 Δ /660-720	17.3 Δ /10.0Y		78	1050	-150	120
2SC1840-37	50	11.0	345-415 Δ /600-720	28.0 Δ /16.2Y	110	74	900	-280	370
	60	12.6	380-480 Δ /660-720	29.0 Δ /16.7Y		78	1050	-310	350
2SC1920-17	50	12.5	345-415 Δ /600-720	28.0 Δ /16.2Y	187	74	1110	-300	270
	60	14.5	380-480 Δ /660-720	29.0 Δ /16.7Y		78	1310	-220	200
2SC1920-27	50	16.5	345-415 Δ /600-720	35.0 Δ /20.0Y	197	74	1110	-410	370
	60	19.0	380-480 Δ /660-720	36.5 Δ /21.0Y		78	1310	-340	300

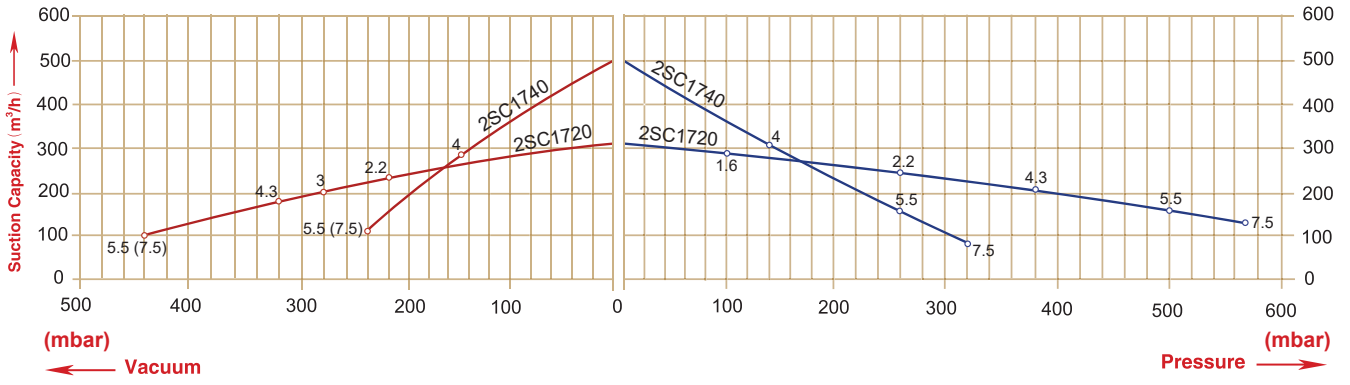
Blowers and Vacuum with 50 Hz - 60 Hz

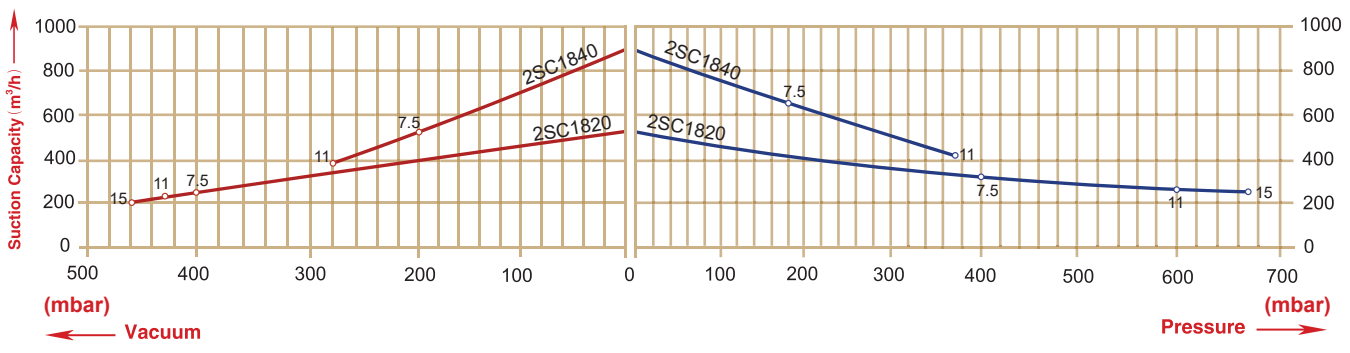
MODEL	MOTOR				Weight approx. Kg	Sound pressure dB(A)	Maximum m³/h	Maximum vacuum mbar	Maximum pressure mbar
	Frequency Hz	rated							
		output KW	voltage V	current A					
2SC1920-37	50	20.0	345-415 Δ /600-720	40.0 Δ /23.0Y	204	74	1110	-440	500
	60	23.0	380-480 Δ /660-720	42.0 Δ /24.2Y		78	1310	-440	430
2SC1920-47	50	25.0	345-415 Δ /600-720	52.0 Δ /30.0Y	211	74	1110	-440	590
	60	29.0	380-480 Δ /660-720	52.0 Δ /30.0Y		78	1310	-440	540
2SC1940-27	50	15.0	345-415 Δ /600-720	35.0 Δ /20.0Y	187	75	1940	-130	110
	60	17.5	380-480 Δ /660-720	36.5 Δ /21.0Y		84	2310	-60	40
2SC1940-37	50	20.0	345-415 Δ /600-720	40.0 Δ /23.0Y	212	75	1940	-220	200
	60	23.0	380-480 Δ /660-720	42.0 Δ /24.2Y		84	2310	-160	130
2SC1940-47	50	25.0	345-415 Δ /600-720	52.0 Δ /30.0Y	219	75	1940	-310	280
	60	29.0	380-480 Δ /660-720	52.0 Δ /30.0Y		84	2310	-270	220
2SC1943-27	50	15.0	345-415 Δ /600-720	35.0 Δ /20.0Y	220	75	2050	-160	170
	60	17.5	380-480 Δ /660-720	36.5 Δ /21.0Y		84	2480	-120	110
2SC1943-37	50	20.0	345-415 Δ /600-720	40.0 Δ /23.0Y	230	75	2050	-250	230
	60	23.0	380-480 Δ /660-720	42.0 Δ /24.2Y		84	2480	-190	180
2SC1943-47	50	25.0	345-415 Δ /600-720	52.0 Δ /30.0Y	235	75	2050	-310	280
	60	29.0	380-480 Δ /660-720	52.0 Δ /30.0Y		84	2480	-270	230
2SC3220-267	50	0.81	200-240 Δ /345-415	4 Δ /2.3Y	24	58	47	-370	490
	60	0.94	220-275 Δ /380-480	4 Δ /2.3Y		62	60	-440	480
2SC3220-567	50	1.5	200-240 Δ /345-415	7.5 Δ /4.3Y	28	58	47	-370	650
	60	1.75	220-275 Δ /380-480	7.6 Δ /4.4Y		62	60	-500	740
2SC3320-467	50	1.1	200-240 Δ /345-415	5.4 Δ /3.1Y	29	59	65	-400	480
	60	1.3	220-275 Δ /380-480	5.4 Δ /3.1Y		63	76	-480	480
2SC3320-567	50	1.5	200-240 Δ /345-415	7.5 Δ /4.3Y	30	59	65	-440	540
	60	1.75	220-275 Δ /380-480	7.5 Δ /4.4Y		63	76	-560	600
2SC3420-267	50	1.5	200-240 Δ /345-415	7.5 Δ /4.3Y	33	61	87	-480	450
	60	1.75	220-275 Δ /380-480	7.6 Δ /4.4Y		66	105	-430	410
2SC3420-567	50	3.3	200-240 Δ /345-415	13 Δ /7.5Y	39	61	87	-500	750
	60	3.8	220-275 Δ /380-480	13.8 Δ /8Y		66	105	-510	850
2SC3520-268	50	2.2	200-240 Δ /345-415	11.4 Δ /6.6Y	40	64	120	-470	460
	60	2.55	220-275 Δ /380-480	11.2 Δ /6.5Y		70	145	-500	450
2SC3520-778	50	4	345-415Δ	9 Δ	51	65	120	-500	820
	60	4.6	380-480Δ	9.5 Δ		71	145	-530	810
2SC3620-368	50	3.3	200-240 Δ /345-415	13 Δ /7.5Y	48	67	165	-460	500
	60	3.8	220-275 Δ /380-480	14.2 Δ /8.2Y		71	195	-480	420
2SC3620-578	50	5.7	345-415Δ	12.5 Δ	65	68	165	-460	740
	60	6.6	380-480	12 Δ		72	195	-480	840

Vacuum selection diagram 50 Hz

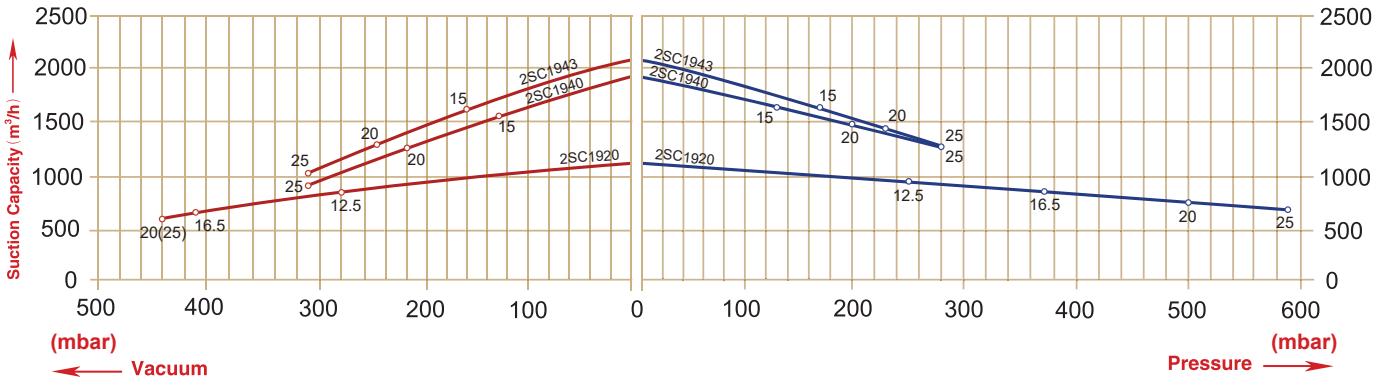


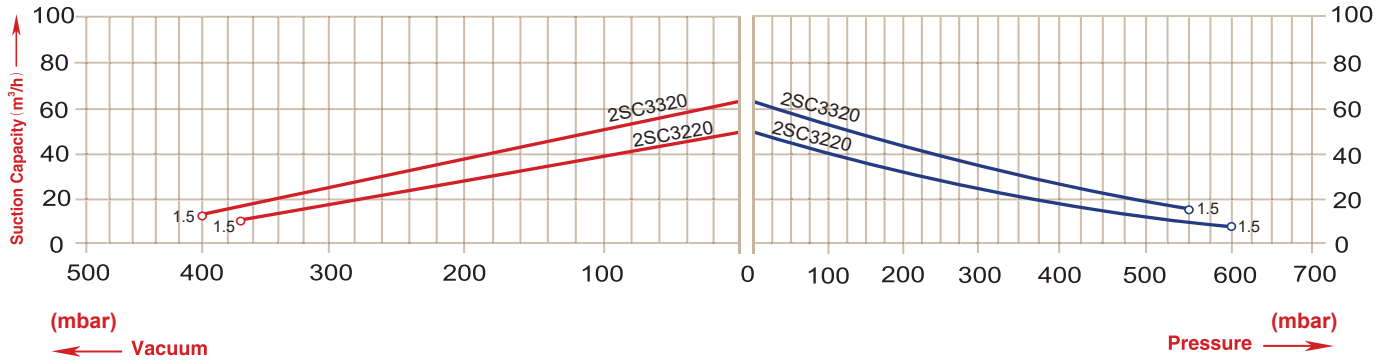


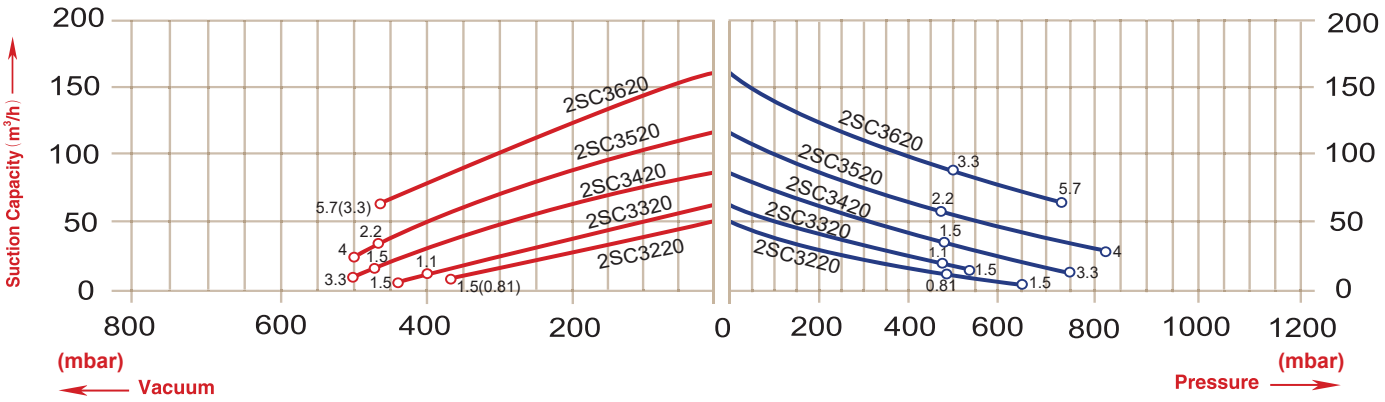




Vacuum selection diagram 50 Hz

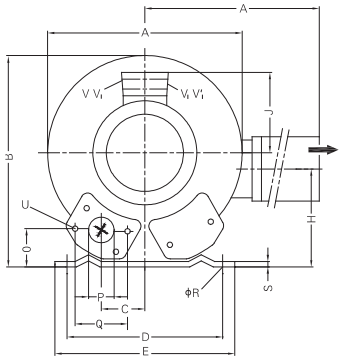


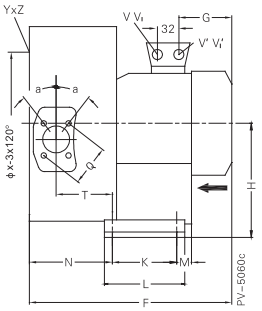


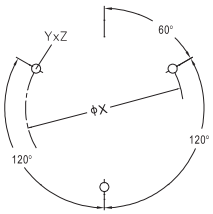


2SC Series

Dimension

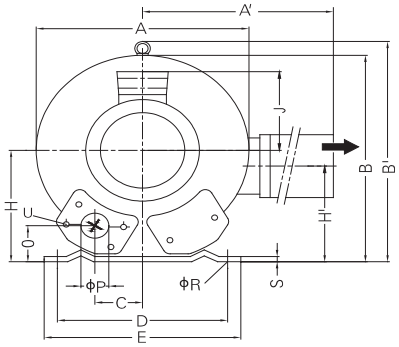


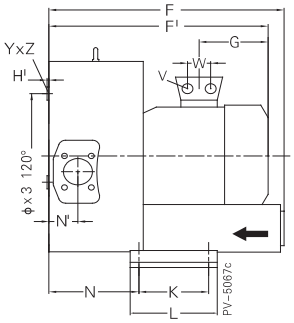


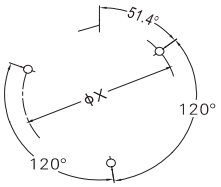


2SC1420, 2SC1520

Type	Phases	A	A'	B	C	D	E	F	G	H	H'	J	K	L	M	N	O	P	Q	ϕR	S	T	U	V (1-)	V' (1-)	V1 (3-)	V'1 (3-1)	α	ϕX	Y×Z	X-Holes
2SC1420-36	3~	322	324	315	58	225	225	401	191	154	153	128	95	130	73	151	45	G11/2 (15tie·deep)	72	12	3	104	M6×19	-	-	M25×1.5	M16×1.5	28°	174	M6×15	51°/171°/291°
2SC1420-46	3~	322	324	315	58	225	225	401	191	154	153	128	95	130	73	151	45	G11/2 (15tie·deep)	72	12	3	104	M6×19	-	-	M25×1.5	M16×1.5	28°	174	M6×15	51°/171°/291°







2SC1820, 2SC1920

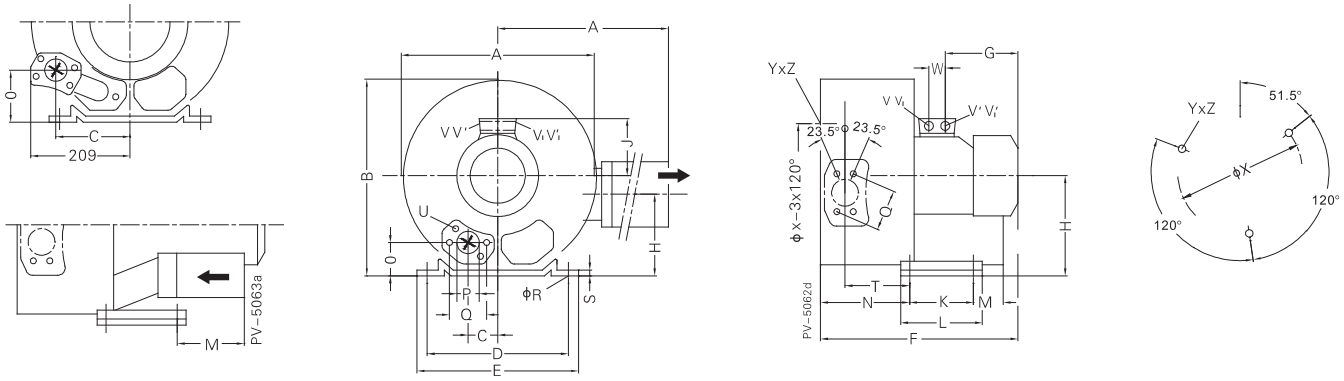
Type	Phases	A	A'	B	C	D	E	F	F'	G	H	H'	J	K	L	M	N	O	P	ϕR	S	V	ϕX	YxZ	X-Holes	W
2SC1820-17	3~	500	549	490	76	356	394	545	589	226	240	199	148	170	217	—	236	65	G 2 ½	15	6	4×M32×1.5	286	M12×20	51.4°/120°/240°	42
2SC1820-27	3~	500	549	490	76	356	394	545	589	226	240	199	148	170	217	—	236	65	G 2 ½	15	6	4×M32×1.5	286	M12×20	51.4°/120°/240°	42

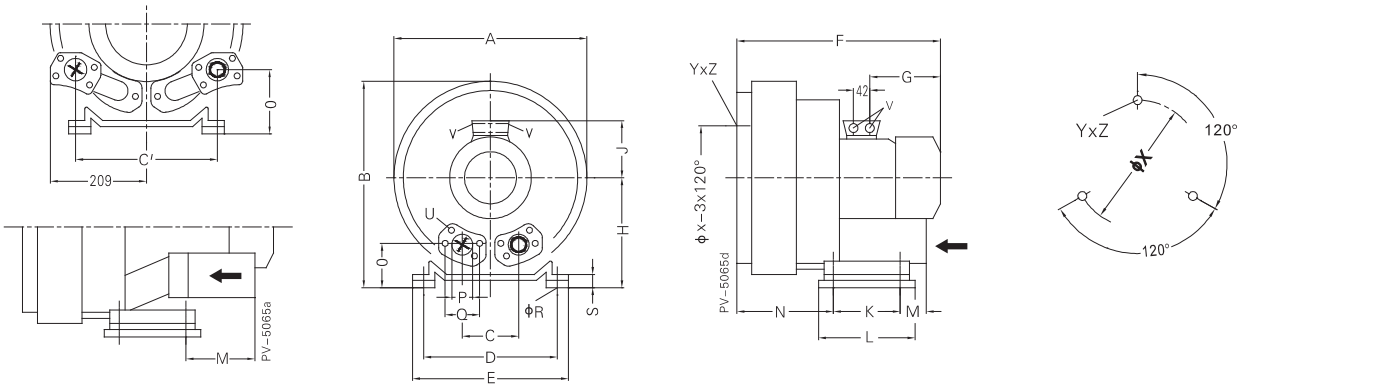
Dimension

2SC1720

2SC1740, 2SC1840

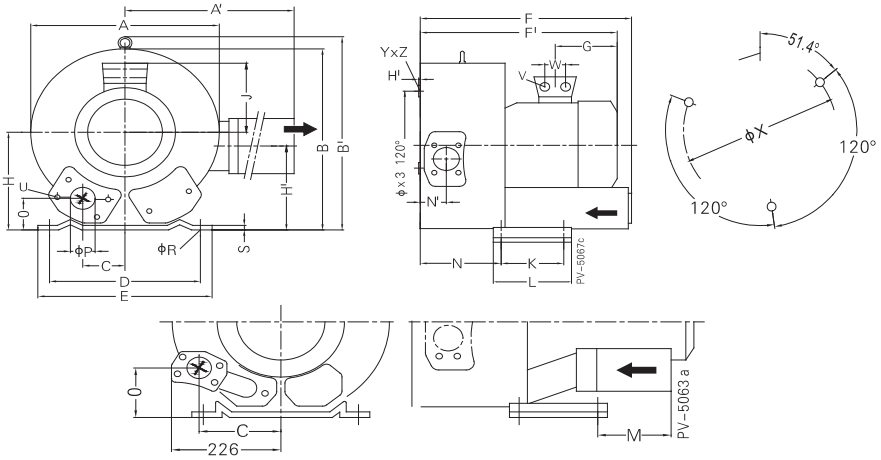
2SC1420, 2SC1520





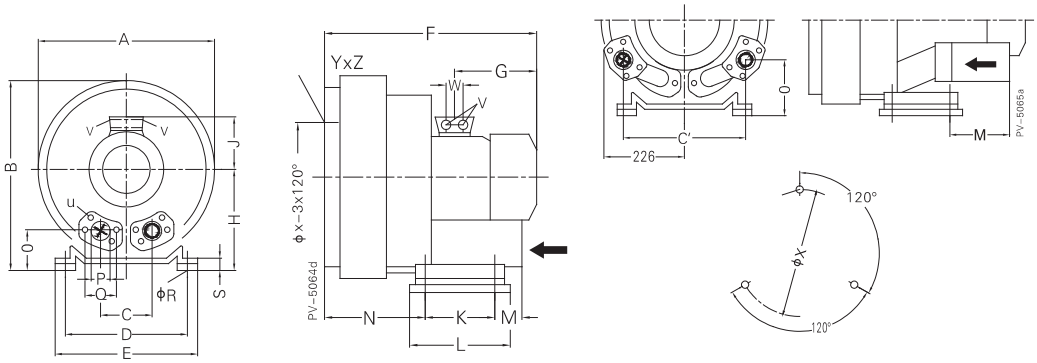
Type	Phases	A	A'	B	C	C'	D	E	F	G	H	H'	J	K	L	M	N	O	ϕP	Q	ϕR	S	T	U	V	V'	V1	V'1	ϕX	Y×Z	X-Holes	W
2SC1520-46	3~	372	411	371	60	—	260	295	465	190	175	144	135	115	115	98	171	48	55	83	14	4	116	M8×17	M32×1.5	M32×1.5	M32×1.5	M32×1.5	M32×1.5	200	M8×20	51.5°/171.5°/291.5°	42
2SC1520-57	3~	372	411	371	60	—	260	295	499	224	175	144	135	115	115	98	171	48	55	83	14	4	116	M8×17	M32×1.5	M32×1.5	M32×1.5	M32×1.5	M32×1.5	200	M8×20	51.5°/171.5°/291.5°	42
2SC1720-16	3~	426	426	420	63	—	290	325	473	185	197	162	128	140	140	84	205	53	55	83	15	4.5	130	M8×17	M25×1.5	M16×1.5	—	—	240	M10×20	51.5°/171.5°/291.5°	29
2SC1720-26	3~	426	426	420	63	—	290	325	507	180	197	162	135	140	140	84	205	53	55	83	15	4.5	130	M8×17	M32×1.5	M32×1.5	M32×1.5	M32×1.5	M32×1.5	240	M10×20	51.5°/171.5°/291.5°	42
2SC1720-37	3~	426	426	420	63	—	290	325	526	209	197	162	148	140	140	84	205	53	55	83	15	4.5	130	M8×17	M32×1.5	M32×1.5	M32×1.5	M32×1.5	M32×1.5	240	M10×20	51.5°/171.5°/291.5°	42
2SC1720-47	3~	426	426	420	154	—	290	325	571	226	197	162	167	140	140	225	205	94	55	83	15	4.5	130	M8×17	M32×1.5	M32×1.5	M32×1.5	M32×1.5	M32×1.5	240	M10×20	51.5°/171.5°/291.5°	42
2SC1720-57	3~	426	426	420	154	—	290	325	571	226	197	162	167	140	140	225	205	94	55	83	15	4.5	130	M8×17	M32×1.5	M32×1.5	M32×1.5	M32×1.5	M32×1.5	240	M10×20	51.5°/171.5°/291.5°	42
2SC1740-37	3~	420	—	468	125	—	290	325	526	209	257	—	148	140	140	84	205	114	55	83	15	64.5	—	M8×17	4×M32×1.5	—	—	—	—	240	M10×20	0°/120°/240°	—
2SC1740-47	3~	420	—	468	—	308	290	325	571	226	257	—	167	140	140	225	205	114	55	83	15	64.5	—	M8×17	4×M32×1.5	—	—	—	—	240	M10×20	0°/120°/240°	—
2SC1740-57	3~	420	—	468	—	308	290	325	571	226	257	—	167	140	140	225	205	114	55	83	15	64.5	—	M8×17	4×M32×1.5	—	—	—	—	240	M10×20	0°/120°/240°	—

Dimension



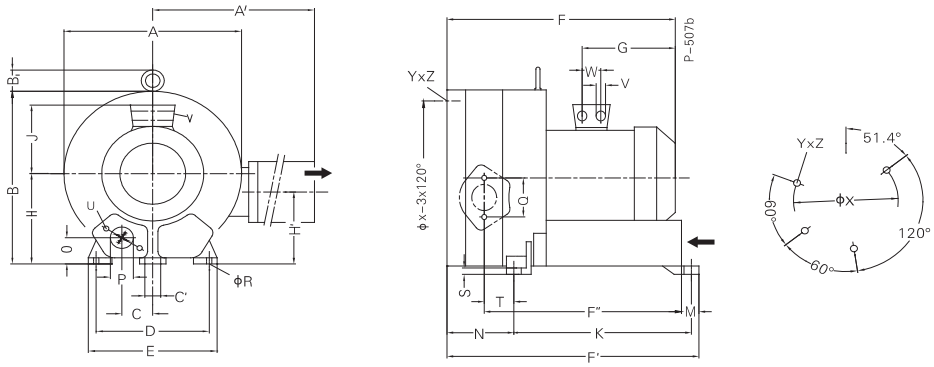
2SC1740, 2SC1840

Type	Phases	A	A'	B	C	D	E	F	F'	G	H	H'	J	K	L	M	N	O	P	ϕR	S	V	ϕX	YxZ	X-Holes	W
2SC1820-37	3~	500	549	490	76	356	394	545	694	318	240	199	197	170	217	—	212	105	G 2 ½	15	6	4×M40×1.5	286	M12×20	51.4°/120°/240°	54
2SC1820-47	3~	500	549	490	152	356	394	545	694	318	240	199	197	170	217	—	212	105	G 2 ½	15	6	4×M40×1.5	286	M12×20	51.4°/120°/240°	54



2SC1740, 2SC1840

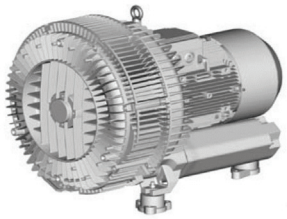
Type	Phases	A	B	C	C'	D	E	F	G	H	J	K	L	M	N	O	ϕP	ϕR	S	V	ϕX	Y×Z	X-Holes	W
2SC1840-27	3~	500	550	152	—	356	394	589	226	300	167	170	217	140	236	125	65	15	66	4×M32×1.5	286	M12×20	0°/120°/240°	42
2SC1840-37	3~	500	550	—	336	356	394	694	318	300	197	170	217	312	212	165	65	15	66	4×M40×1.5	286	M12×20	0°/120°/240°	54

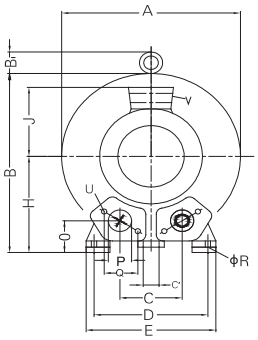


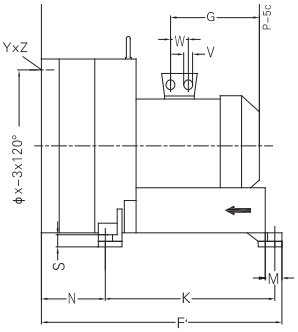
2SC1820, 2SC1920

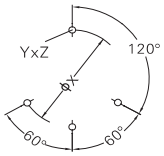
Type	Phases	A	A'	B	C	C'	D	E	F	F'	F"	G	H	H'	J	K	M	N	O	ϕP	Q	ϕR	S	T	U	V	ϕX	Y×Z	X-Holes	W
2SC1920-17	3~	615	780	55	103.5	15	360	415	752	786	634	345	300	236	197	533	39	230	92	100	150	15	21	117	M12×30	4×M40×1.5	490	M12×30	51°/120°/240°	54
2SC1920-27	3~	615	780	55	103.5	15	360	415	752	786	634	345	300	236	197	533	39	230	92	100	150	15	21	117	M12×30	4×M40×1.5	490	M12×30	51°/120°/240°	54
2SC1920-37	3~	615	780	55	103.5	15	360	415	752	786	634	345	300	236	197	533	39	230	92	100	150	15	21	117	M12×30	4×M40×1.5	490	M12×30	51°/120°/240°	54
2SC1920-47	3~	615	780	55	103.5	15	360	415	812	786	634	345	300	236	197	533	39	230	92	100	150	15	21	117	M12×30	4×M40×1.5	490	M12×30	51°/120°/240°	54

Dimension



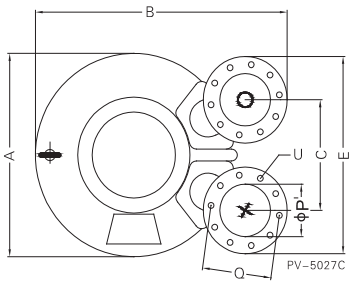


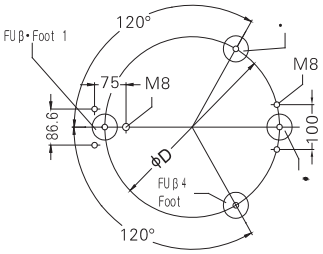


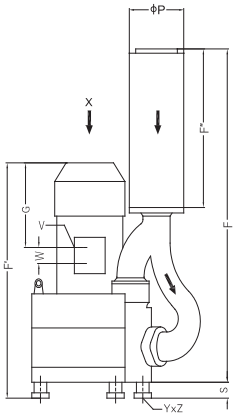


2SC1940

Type	Phases	A	B	B1	C	C'	D	E	F	F'	G	H	J	K	M	N	O	ϕP	Q	ϕR	S	U	V	ϕX	Y×Z	X-Holes	W
2SC1940-27	3~	615	663	55	207	15	360	415	752	786	354	350	197	533	39	230	132	100	140	15	79	M12×35	4×M40×1.5	490	M12×30	0°/120°/240°	54
2SC1940-37	3~	615	663	55	207	15	360	415	752	786	354	350	197	533	39	230	132	100	140	15	79	M12×35	4×M40×1.5	490	M12×30	0°/120°/240°	54
2SC1940-47	3~	615	663	55	207	15	360	415	752	786	354	350	197	533	39	230	132	100	140	15	79	M12×35	4×M40×1.5	490	M12×30	0°/120°/240°	54





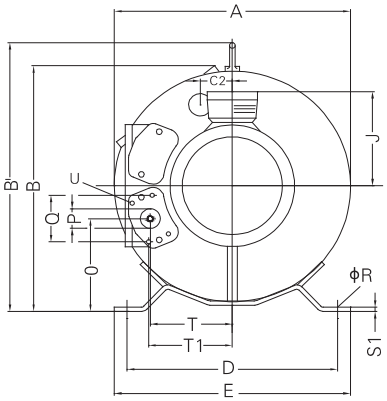


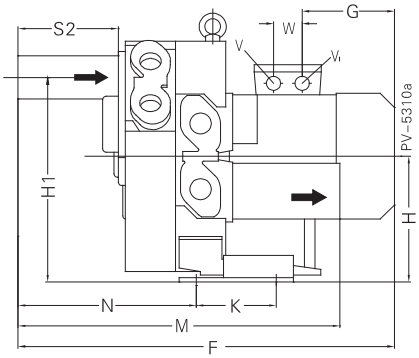
2SC1943

Type	Phases	A	B	C	D	E	F	F'	G	P	P'	Q	S	U	V	Y×Z	W
2SC1943-27	3~	615	723	307	490	526	1201	848	291	219	135	201	58	M8×40	4×M40×1.5	M12×10.5	54
2SC1943-37	3~	615	723	307	490	526	1201	848	291	219	135	201	58	M8×40	4×M40×1.5	M12×10.5	54
2SC1943-47	3~	615	723	307	490	526	1201	848	291	219	135	201	58	M8×40	4×M40×1.5	M12×10.5	54

!SC3220

2SC3320, 2SC3420, 2SC3520, 2SC3620





Type	Phases	A	B	B'	C2	D	E	F	G	H	H1	J	K	M	N	O	P	Q	ϕR	S1	S2	S3	T	T2	T3	V	V1	W
2SC3220-267	3~	313	326	359	43	260	298	469	-	167	272	111	105	426	241	123	G11/4(18deep)	64	14	4	140	31	105	107	M6×17	M25×1.5	M16×1.5	32
2SC3220-567	3~	313	326	359	43	260	298	525	-	167	272	128	105	426	241	123	G11/4(18deep)	64	14	4	140	31	105	107	M6×17	M25×1.5	M16×1.5	32
2SC3320-467	3~	331	345	380	47	290	325	390	-	177	291	120	105	431	243	130	G11/4(18deep)	64	14	4	140	31	114	116	M6×17	M25×1.5	M16×1.5	32
2SC3320-567	3~	331	345	380	47	290	325	421	-	177	291	128	105	431	243	130	G11/4(18deep)	64	14	4	140	31	114	116	M6×17	M25×1.5	M16×1.5	32
2SC3420-267	3~	363	377	414	52	315	350	529	-	195	319	128	130	436	243	143	G11/4(18deep)	64	14	4	140	31	125	127	M6×17	M25×1.5	M16×1.5	32
2SC3420-567	3~	363	377	-	52	315	350	554	211	195	319	128	130	436	243	143	G 1 ¼(18deep)	64	14	4	140	-	125	127	M6×17	M25×1.5	M16×1.5	32
2SC3520-268	3~	387	402	435	57	328	363	549	206	343	128	152	453	256	148	-	G11/4(18deep)	64	14	5	140	31	137	138	M6×17	M25×1.5	M16×1.5	42
2SC3520-778	3~	387	402	435	57	328	363	603	206	343	148	152	453	256	148	-	G11/4(18deep)	64	14	5	140	31	137	138	M6×17	2×M32×1.5	M16×1.5	32
2SC3620-368	3~	442	457	495	63	372	406	578	236	389	128	152	458	259	173	-	G11/4(18deep)	64	14	5	140	31	153	155	M6×17	M25×1.5	M16×1.5	42
2SC3620-578	3~	442	457	495	63	372	406	643	236	389	148	152	458	259	173	-	G11/4(18deep)	64	14	5	140	31	153	155	M6×17	2×M32×1.5	M16×1.5	-

INTRODUCTION

3SC Series

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 system/Textile machines/printing machine/ PCB process/Dust collection/Fish ponds/SPA/Dental suction devices/Paper sorting and delivery/Lifting and holding/ Packaging machines

Feature and Advantages

- 3SC series are Three Stage Side Channel Blower with durable up to 20,000 operating hours without maintenance down time.
- The noise level was kept impressively low, but SANCO is able to make it further quiet.
- Casing and impellers are made of aluminum alloy and have excellent features on mechanic strength, durability, light weight and smooth exterior.
- 3SC series are designed with thermal protector.
- Meet CE Norm :
  Machinery Directive 2006/42/EC,
  Low Voltage Directive 2014/35/EU,
  Electromagnetic Compatibility 2014/30/EU,
  EN ISO 12100: 2010, EN 60034-1: 2010,
  EN 60335-2-41:2003+A1:2004+A2:2010,
  EN 55014-1:2006+A1:2009+A2:2011,
  EN 55014-2:1997+A1:2001+A2:2008,
  EN 61000-3-2:2014, EN 61000-3-3:2013
- Degree of protection : IP55
- Insulation class : insulation class F
- Voltage range :
  1-phase, 115/230 V
  1-phase, 230 V
  3-phase, 185-225 V Δ /320-390VY
  3-phase, 200-240 V Δ /345-415VY
  3-phase, 345-415 V Δ
  3-phase, 380-480 V Δ
  3-phase, 575 V Δ
  Frequency : 50Hz / 60Hz

Installation : Any aspect

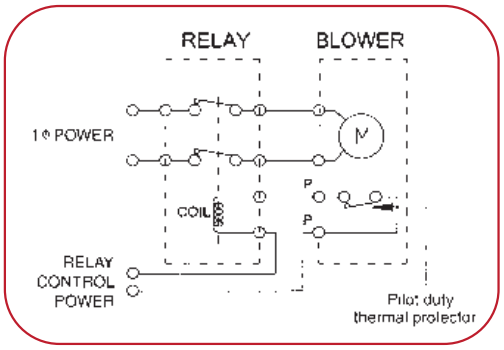
Thermal Protection

The following conditions must be considered.

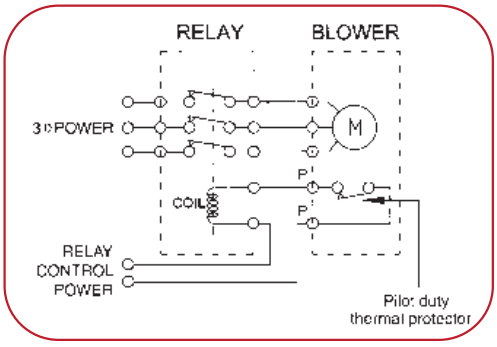
Pilot duty thermal protection :

- For all 3SC Series.
- The thermal switch must be connected in series with a magnetic contactor must be reset manually

Recommended protector connection (1Ø)



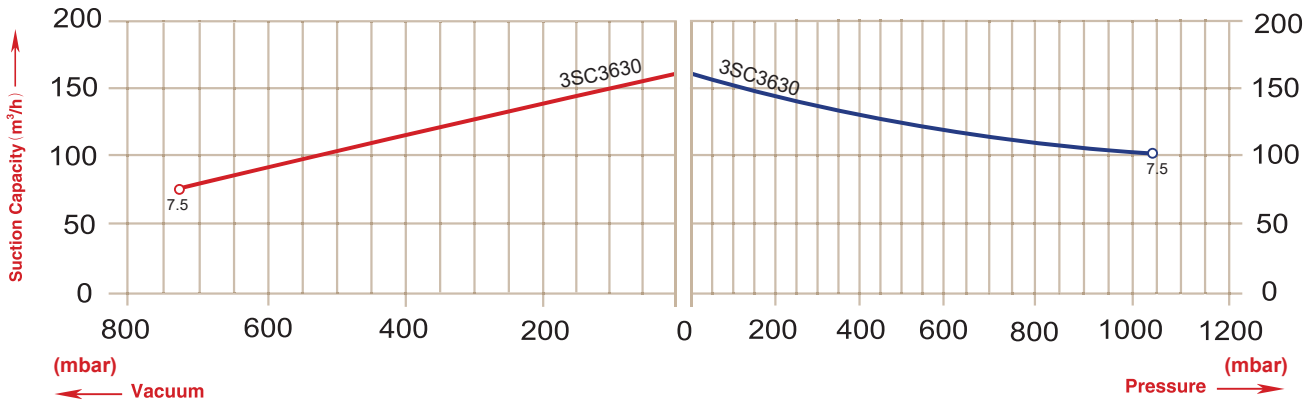
Recommended protector connection (3 ø)



Blowers and Vacuum with 50 Hz - 60 Hz

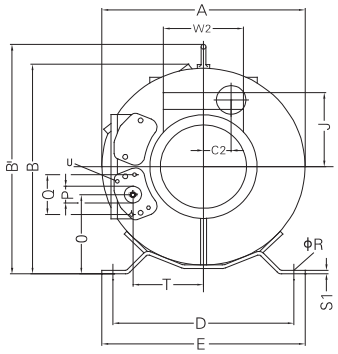
MODEL	MOTOR				Weight approx. Kg	Sound pressure dB(A)	Maximum m^3/h	Maximum vacuum mbar	Maxim press mb
	Frequency Hz	rated							
		output KW	voltage V	current A					
3SC3630-678	50	"7.5	345-415 Δ	16 Δ	86	72	70	-730	1040
	60	8.6"	380-480 Δ	16 Δ		76	200	-700	1040

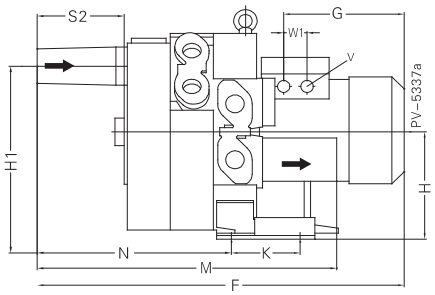
Vacuum selection diagram 50 Hz



Dimension

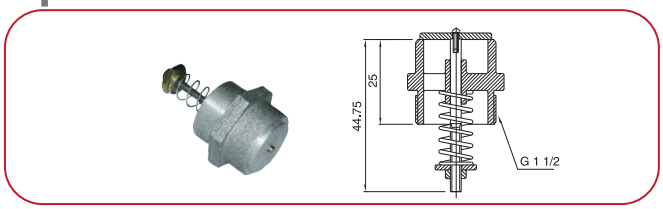
3SC3630-678





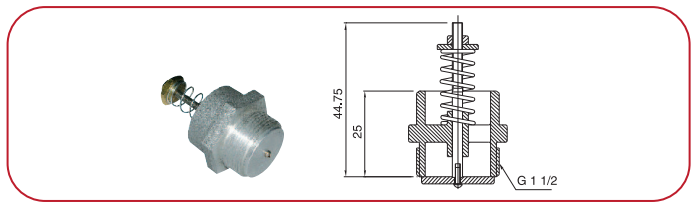
Type	Phases	A	B	B'	C2	D	E	F	G	H	H1		K	M	N	O	P	Q	ϕR	S1	S2	T	U	V	W1	W2
3SC3630-678	3~	442	402	492	63	371	406	717	274	236	389	—	152	539	336	172	G11/4(18deep)	64	14	5	146	153	M6×17	M32×1.5	42	120

Optional Accessories



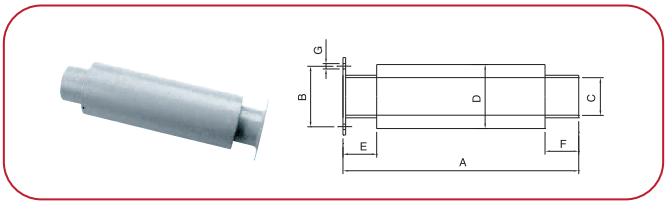
Pressure relief valve for blowers

Type	Machine	Wt. Kg
PR1	FOR SC40 / SC50 / SC60	0.4



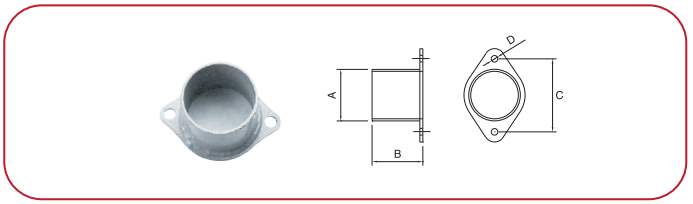
Vacuum relief valve for suction

Type	Machine	Wt. Kg
VR1	FOR SC40 / SC50 / SC60	0.4



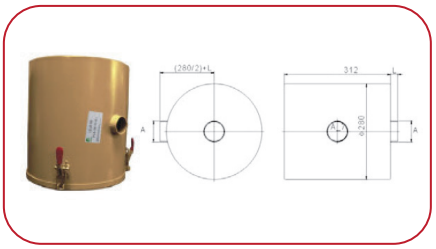
Additional silencer

Type	Machine	A	B	C	D	E	F	G	Wt Kg
AS1	SC20-/30-	260	55-64	38	60	40	40	6.5	0.85
AS2	SC40-	280	72	50	76	40	40	3.5	1.01
AS3	SC50-/60-	280	82.5	60	89	40	40	9	1.4



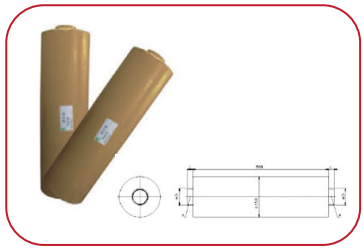
Hose Flange

Type	Machine	A	B	C	D	Wt. Kg
HF1	SC20-/30-	38.1	50	55-64	6.5	0.17
HF2	SC40-	50.8	50	72	6.5	0.2
HF3	SC50-/60-	60	50	82.5	9	0.24



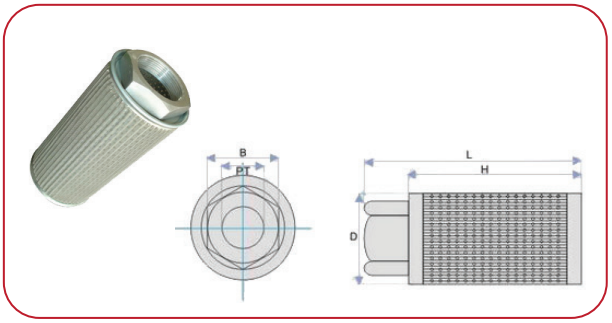
Filtering barrels

A	L(mm)
G2 1/2'	24
G2'	21
G1 1/2'	19
G1 1/4'	17



Muffler

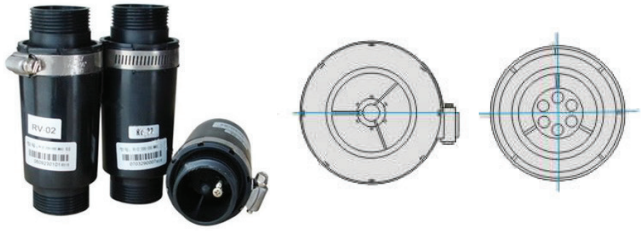
A	D(mm)	L(mm)
G2 1/2'	78	24
G2'	62	21
G1 1/2'	48	19
G1 1/4'	40	17

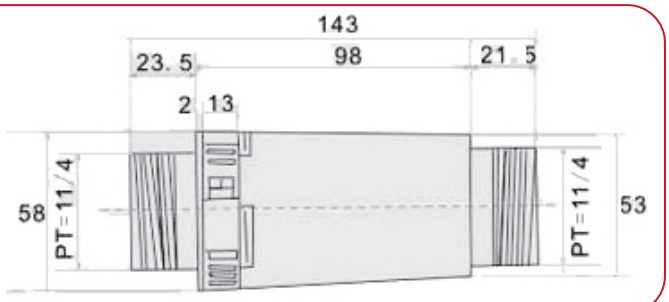


Air Filter

Model	PT	D (mm)	L (mm)	H (mm)	B (mm)	Filtration Precision	Air Flow (1/min)	Weight (Kg)
MF-08	1	58	170	155	42	100	110	0.2
MF-10	11/4	71	186	170	54	100	210	0.35
MF-12	11/2	85	196	182	65	100	285	0.49
MF-16	2	103	215	202	75	100	395	0.65
MF-20	21/2	148	274	252	97	100	750	1.20
MF-32	4	208	380	357	142	100	1000	2.45

Pressure Relief Valve





Small Compact Inlet Vacuum Filters "RB" Series G1 1/4"- 4"

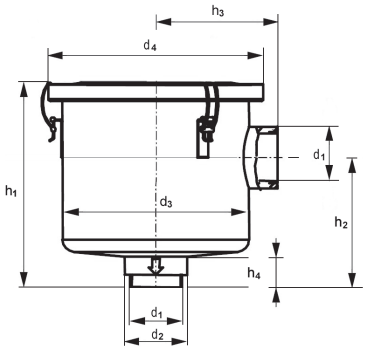
APPLICATIONS & EQUIPMENT

- Vacuum Pumps & Systems - p.D., Side Channel, Rotary Vane,Screw,Piston
- Vacuum Packaging Equipment
- Vacuum Lifters
- Blowers - Side Channel & P.D
- Intake Suction Filters
- Pneumatic Conveying Systems
- Soil Venting/Remediation
- Remote Installations for Piston & Screw Compressors
- Printing Industry
- Factory Automation Equip
- Leak Detection Systems
- Wood working
- Medical Industry

FEATURES & SPECIFICATIONS

- Vacuum level: Typically 1×10^{-3} mmhg (1.3×10^{-3} mbar)
- Polyester: 99% + removal efficiency standard to 5 micron
- Paper:99% + removal efficiency standard to 2 micron
- Brazed fittings for High vacuum duty
- Stainless steel torsion clips for durability
- Low pressure drop
- Positive engagement O-ring seal system
- Seamless drawn housings
- Large dirt holding capacity and Easy field cleaning, especially when mounted horizontally or inverted
- Rugged all steel construction w/backed enamel finish
- Various media
- Temp (continuous): min - 15°F(-26℃) max 220°F (104℃)
- Filter change out differential:10" -15"H_2O over initial delta P
- Pressure drop graphs available upon request

INAUGURATION | DRAWING | INSTALLATION



Selection and ordering data

with Polyester Element	FPT Inlet & Outlet	DIMENSIONS - mm								Rated Flow m^3/min	Approx.wt. kg
		d1	d2	d3	d4	h1	h2	h3	h4		
RB-10 1 1/4"	1 1/4"	G1 1/4	48	125	145	116	68	77	146	1.8	1.5
RB-12 1 1/2"	1 1/2"	G1 1/2	53	172	188	167	111	100	16	2.4	2.3
RB-16 2"	2"	G2	68	194	217	256	129	110	20	5.0	4.3
RB-20 2 1/2"	2 1/2"	G2 1/2	86	194	217	256	129	110	13	6.0	4.3
RM-28 4"	4"	G4	123	268	272	263	147	197	74	14.7	14.5

SANCO
Air Blower & Ring Blower