



FEATURES

It is generally recognized that air blowers produce high operation noise due to impact and pulsation when it sucks and discharges air in a gust. The Sanco model SCB rotary blower incorporates a 3-lobe spur type rotor. that greatly lowers noise by a structure that continuously conveys air. Another characteristic of the 3-lobe rotor is that reduces torque fluctuation and stabilizes flow volume.

All air blowers are built and checked annually following the strictes adhesion to ISO 9001 and CE quality standards, involving the use of our highly precise and regularly maintained CNC machinery. Scrupulous attention is paid to every detail, in a specialized field where technical errors should be kept to a bare minimum.

APPLICATIONS

- Aeration in sewage or industrial wastewater treatment plants
- For air-lift pumps in sewage or industrial wastewater treatment plants
- Oxygen supply at aquariums and fish frams
- Pneumatic conveyer



STANDARD ACCESSORIES

Common Base
Indoor use Drip-proof Motor
Suction Silencer
Discharge Silencer
V-Belt and Belt Cover
Relief Valve
Pressure Gauge
Check Valve
“T” Joint

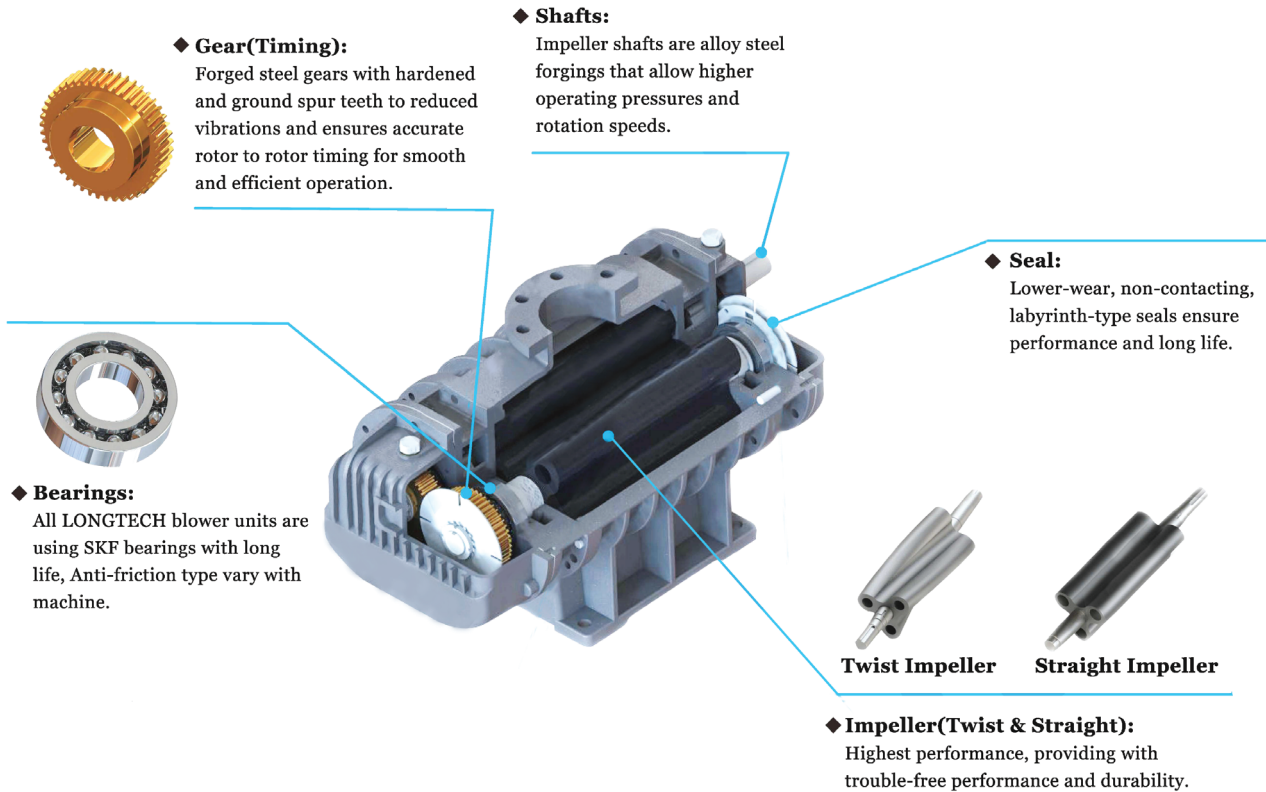
OPTIONS

Foundation Bolts
Expansion Joint
Gate Valve
Acoustic-Hood
Vibration-Isolation Base with Rubber Feet

MAJOR STANDARD SPECIFICATION

Blower	Fluid	Type of Fluid Temperature	Air 0-40 °C
	Components	Rotor Shaft Seal Bearing	3-lobe Spur type Labyrinth Ball or Roller Bearings
	Materials	Rotor Casing Shaft Gear	Gray Iron Casting Gray Iron Casting Carbon Steel Chromium Molybdenum Steel
	Type	Air Cooled Package	1,000 to 8,000 mmAq pressure requirement
Motor	Type No. of poles Voltage	Water Cooled Package	8,000 to 10,000 mmAq pressure requirement *Please contact your local dealer for more information and model.
		Indoor-use, drip-proof type	
		4-pole 3-phase.220,380,400,415,440,460 volt	

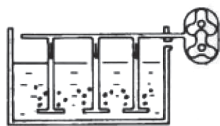
MAIN PARTS



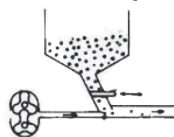
APPLICATION AREA

Other application will not showing out. Please contact with authorized local dealer or sales representative.

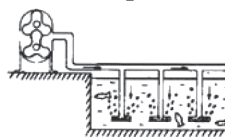
Wastewater Treatment



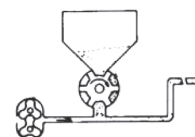
Particle Conveyance



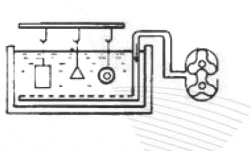
Farming Pond



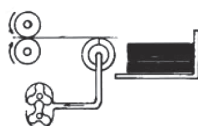
Cereal Products Conveyance



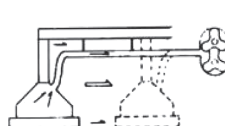
Air Supply for Electro bath



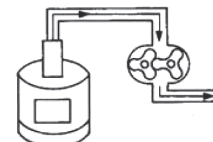
Paper Feeding



Absorption Transporter



Vacuum Packing for Food



SCB Series



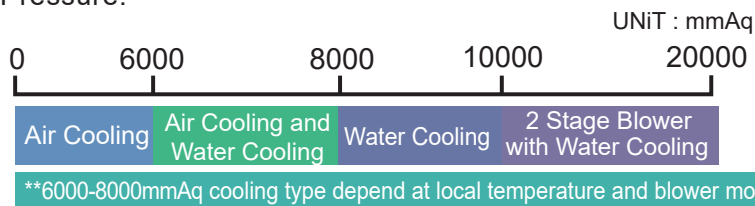
ADVANTAGE

SCB Series

*Wider range for volume , pressure and horse power.

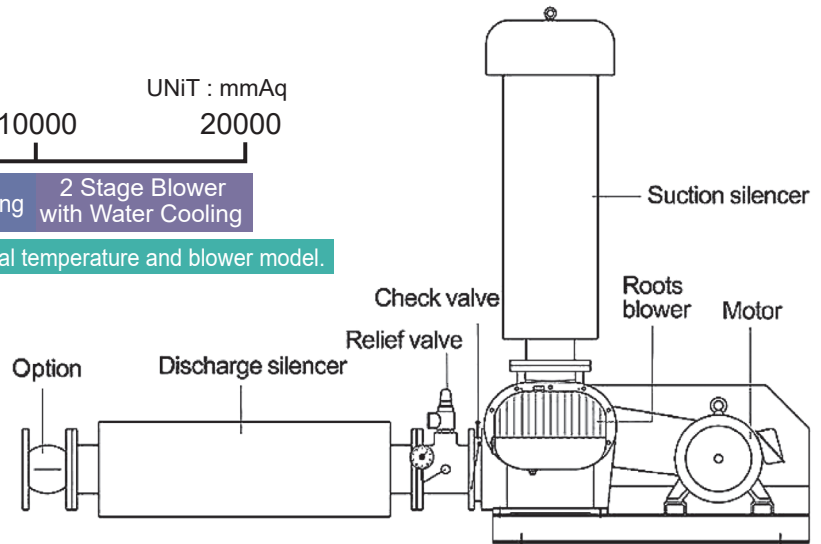
*Bore 40mm to 500mm(1.5"to 26")

*Pressure:



*Horse power : 0.5 to 1000HP

*Capacity : 0.5 to 560 m³/min

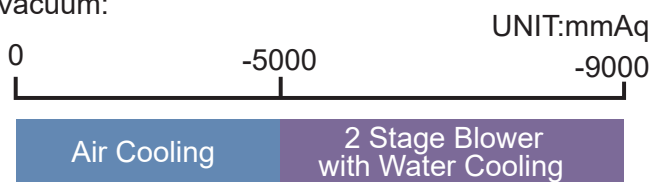


SCBV Series

*Wider range for volume , pressure and horse power.

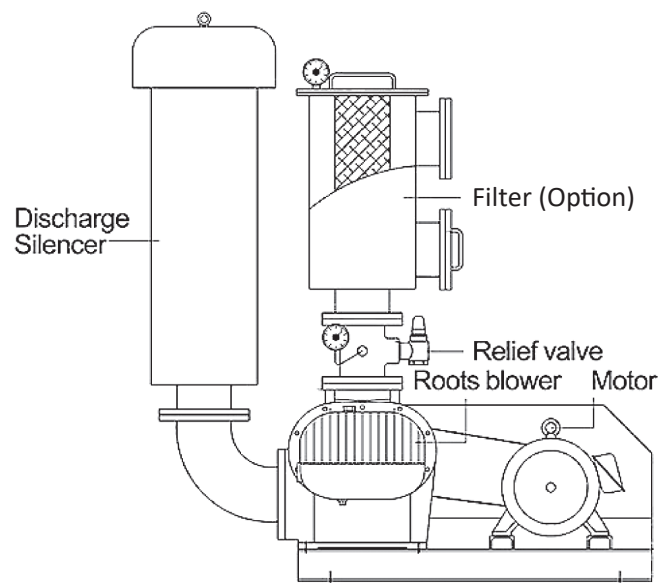
*Bore 40mm to 500mm (1.5" to 20")

*Vacuum:



*Horse power : 0.5 to 700 Hp

*Capacity : 0.5 to 560 m³/min



PRESSURE ROOTS BLOWER

Performance table Qs(m³/min) PRESSURE(mmH₂O) La(kW)																	
TYPE	RPM	1000 mmH₂O		2000 mmH₂O		3000 mmH₂O		4000 mmH₂O		5000 mmH₂O		6000 mmH₂O		7000 mmH₂O		8000 mmH₂O	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
SCB-32	1650	0.34	0.19	0.27	0.27	0.21	0.36	0.16	0.45	0.11	0.54	0.07	0.62	—	—	—	—
	1800	0.39	0.20	0.32	0.30	0.25	0.40	0.20	0.49	0.16	0.59	0.12	0.68	—	—	—	—
	1950	0.44	0.22	0.36	0.32	0.30	0.43	0.25	0.53	0.21	0.63	0.17	0.74	—	—	—	—
	2100	0.49	0.24	0.41	0.35	0.35	0.46	0.30	0.57	0.26	0.68	0.22	0.79	—	—	—	—
	2250	0.54	0.26	0.46	0.37	0.40	0.49	0.35	0.61	0.31	0.73	0.26	0.85	—	—	—	—
	2400	0.59	0.27	0.51	0.40	0.45	0.53	0.40	0.65	0.35	0.78	0.31	0.91	—	—	—	—
	2550	0.64	0.29	0.56	0.42	0.50	0.56	0.45	0.69	0.40	0.83	0.36	0.9	—	—	—	—
SCB-40	1650	0.60	0.19	0.57	0.37	0.54	0.53	0.51	0.67	0.49	0.81	0.48	0.94	—	—	—	—
	1800	0.68	0.21	0.64	0.40	0.61	0.57	0.59	0.74	0.57	0.88	0.55	1.02	—	—	—	—
	1950	0.75	0.23	0.71	0.43	0.69	0.62	0.66	0.80	0.64	0.96	0.62	1.11	—	—	—	—
	2100	0.83	0.24	0.79	0.47	0.76	0.67	0.74	0.86	0.71	1.03	0.70	1.19	—	—	—	—
	2250	0.90	0.26	0.86	0.50	0.84	0.72	0.81	0.92	0.79	1.11	0.77	1.28	—	—	—	—
	2400	0.97	0.28	0.94	0.53	0.91	0.77	0.88	0.98	0.86	1.18	0.85	1.36	—	—	—	—
	2550	1.05	0.30	1.01	0.57	0.98	0.81	0.96	1.04	0.94	1.25	0.92	1.45	—	—	—	—
SCB-50	850	0.99	0.41	0.79	0.80	0.64	1.16	0.50	1.51	0.38	1.84	0.29	2.15	0.21	2.45	0.15	2.74
	1000	1.31	0.48	1.11	0.94	0.96	1.37	0.82	1.77	0.70	2.16	0.61	2.53	0.53	2.88	0.47	3.22
	1150	1.63	0.56	1.44	1.08	1.28	1.57	1.15	2.04	1.02	2.49	0.93	2.91	0.86	3.32	0.79	3.71
	1300	1.95	0.63	1.76	1.22	1.61	1.78	1.47	2.31	1.34	2.81	1.25	3.29	1.18	2.75	1.12	4.19
	1450	2.27	0.70	2.08	1.36	1.93	1.98	1.79	2.57	1.67	3.31	1.58	3.67	1.50	4.18	1.44	4.67
	1600	2.60	0.77	2.40	1.50	2.25	2.19	2.11	2.84	1.99	3.46	1.90	4.05	1.82	4.61	1.76	5.16
	1750	2.92	0.85	2.72	1.64	2.57	2.39	2.43	3.11	2.31	3.78	2.22	4.43	2.14	5.05	2.08	5.64
SCB-65	850	2.07	0.62	1.89	1.21	1.71	1.76	1.55	2.29	1.41	2.78	1.29	3.26	1.19	3.71	1.09	4.15
	1000	2.58	0.73	2.41	1.42	2.22	2.07	2.07	2.69	1.93	3.28	1.81	3.83	1.71	4.37	1.60	4.88
	1150	3.10	0.84	2.93	1.64	2.74	2.39	2.58	3.09	2.45	3.77	2.33	4.41	2.22	5.03	2.12	5.62
	1300	3.62	0.95	3.45	1.85	3.26	2.69	3.10	3.50	2.96	4.26	2.84	4.99	2.74	5.68	2.64	6.35
	1450	4.13	1.06	3.96	2.06	3.77	3.01	3.62	3.90	3.48	4.75	3.36	5.56	3.26	6.34	3.15	7.08
	1600	4.65	1.17	4.48	2.28	4.29	3.32	4.13	4.30	4.00	5.24	3.88	6.14	3.77	6.99	3.67	7.81
	1750	5.17	1.28	5.00	2.49	4.81	3.63	4.65	4.71	4.51	5.73	4.39	6.71	4.29	7.65	4.19	8.55
SCB-80	850	3.24	1.12	2.87	2.14	2.54	3.08	2.23	3.94	1.95	4.73	1.70	5.47	1.48	6.15	1.28	6.79
	1000	4.14	1.32	3.77	2.52	3.44	3.62	3.13	4.63	2.85	5.57	2.60	6.44	2.38	7.24	2.18	7.99
	1150	5.04	1.51	4.67	2.90	4.34	4.16	4.03	5.33	3.75	6.40	3.50	7.40	3.28	8.33	3.08	9.19
	1300	5.94	1.71	5.57	3.27	5.24	4.71	4.93	6.02	4.65	7.24	4.40	8.37	4.18	9.41	3.98	10.39
	1450	6.84	1.91	6.47	3.65	6.14	5.25	5.83	6.72	5.55	8.08	5.30	9.33	5.08	10.50	4.88	11.58
	1600	7.74	2.11	7.37	4.03	7.04	5.79	6.73	7.41	6.45	8.91	6.20	10.30	5.98	11.58	5.78	12.78
	1750	8.64	2.30	8.27	4.41	7.94	6.33	7.63	8.11	7.35	9.75	7.10	11.26	6.88	12.67	6.68	13.98

Units : kW

* 1000 mmH₂O = Approx 0.1 kg/cm² = Approx 0.01 MPa

0.37
11
55
300

0.75
15
75
375

1.5
18.5
90
450

2.2
22
110
525

3.7
30
150
600

5.5
37
185
675

7.5
45
225
750

PRESSURE ROOTS BLOWER

Performance table Qs(m ³ /min) PRESSURE(mmH ₂ O) La(kW)																	
TYPE	RPM	1000 mmH ₂ O		2000 mmH ₂ O		3000 mmH ₂ O		4000 mmH ₂ O		5000 mmH ₂ O		6000 mmH ₂ O		7000 mmH ₂ O		8000 mmH ₂ O	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
SCB-100	850	5.80	1.57	5.19	3.00	4.65	4.31	4.16	5.51	3.74	6.63	3.36	7.66	3.03	8.62	2.74	9.51
	1000	7.06	1.84	6.45	3.53	5.91	5.07	5.42	6.49	5.00	7.80	4.62	9.01	4.29	10.14	4.00	11.19
	1150	8.32	2.12	7.71	4.05	7.17	5.83	6.68	7.46	6.26	8.97	5.88	10.36	5.55	11.66	5.26	12.86
	1300	9.58	2.40	8.97	4.58	8.43	6.59	7.94	8.43	7.52	10.14	7.14	11.71	6.81	13.18	6.52	14.54
	1450	10.84	2.67	10.23	5.11	9.69	7.35	9.20	9.41	8.78	11.31	8.40	13.06	8.07	14.70	7.78	16.22
	1600	12.10	2.95	11.49	5.64	10.95	8.11	10.46	10.38	10.04	12.47	9.66	14.42	9.33	16.22	9.04	17.90
	1750	13.36	3.23	12.75	6.17	12.21	8.87	11.72	11.35	11.30	13.64	10.92	15.77	10.59	17.74	10.30	19.57
SCB-125	750	10.29	2.59	9.42	4.96	8.62	7.13	7.88	9.12	7.25	10.97	6.66	12.67	6.11	14.26	5.65	15.74
	900	12.69	3.11	11.81	5.95	11.01	8.55	10.28	10.95	9.64	13.16	9.05	15.21	8.51	17.11	8.04	18.89
	1050	15.08	3.63	14.20	6.94	13.41	9.98	12.67	12.77	12.03	15.35	11.44	17.74	10.90	19.97	10.44	22.04
	1200	17.48	4.15	16.60	7.93	15.80	11.40	15.07	14.59	14.43	17.55	13.84	20.28	13.29	22.82	12.83	25.18
	1350	19.87	4.66	18.99	8.92	18.19	12.83	17.46	16.42	16.82	19.74	16.23	22.81	15.69	25.67	15.23	28.33
	1500	22.26	5.18	21.39	9.91	20.59	14.25	19.85	18.24	19.22	21.93	18.63	25.35	18.08	28.52	17.62	31.48
	1650	24.66	5.70	23.78	10.90	22.98	15.68	22.25	20.07	21.61	24.13	21.02	27.88	20.48	31.38	20.01	34.63
SCB-150	750	13.32	3.34	12.62	6.39	11.98	9.19	11.40	11.76	10.87	14.14	10.93	16.34	10.00	18.39	9.61	20.30
	900	16.40	4.01	15.70	7.67	15.06	11.03	14.59	14.11	13.95	16.97	13.48	19.61	13.09	22.07	12.70	24.36
	1050	19.49	4.68	18.79	8.95	18.15	12.86	17.58	16.47	17.04	19.80	16.57	22.88	16.18	25.75	15.78	28.41
	1200	22.58	5.35	21.88	10.23	21.24	14.70	20.66	18.82	20.13	22.62	19.65	26.15	19.26	29.42	18.87	32.47
	1350	25.66	6.02	24.96	11.50	24.33	16.54	23.75	21.17	23.21	25.45	22.74	29.42	22.35	33.10	21.96	36.53
	1500	28.75	6.68	28.05	12.78	27.41	18.38	26.84	23.52	26.30	28.28	25.83	32.69	25.44	36.78	25.05	40.59
	1650	31.84	7.35	31.14	14.06	30.50	20.21	29.92	25.88	29.39	31.11	28.91	35.96	28.52	40.46	28.13	44.65
SCB-200	600	17.01	4.84	15.95	9.27	15.04	13.32	14.21	17.06	13.53	20.51	12.93	23.71	12.40	26.68	11.98	29.45
	750	22.68	6.05	21.62	11.58	20.71	16.65	19.88	21.32	19.220	25.64	18.60	29.64	18.07	33.36	17.65	36.82
	900	28.35	7.27	27.29	13.90	26.38	19.98	25.55	25.59	24.87	30.77	24.27	35.57	23.74	40.03	23.32	44.18
	1050	34.02	8.48	32.96	16.22	32.05	23.32	31.22	29.85	30.54	35.896	29.94	41.49	29.41	46.70	28.99	51.55
	1200	39.69	9.69	38.63	18.53	37.72	26.65	36.89	34.12	36.21	41.02	35.61	47.42	35.08	53.37	34.66	58.91
	1350	45.36	10.90	44.30	20.85	43.39	29.98	42.56	38.38	41.88	46.15	41.28	53.35	40.75	60.04	40.33	66.27
	1500	51.03	12.11	49.97	23.17	49.06	33.31	48.23	42.56	47.55	51.28	46.95	59.28	46.42	66.71	46.00	73.64
SCB-250	600	27.72	7.40	26.22	14.16	24.89	20.35	23.68	26.06	22.58	31.34	21.60	36.23	20.73	40.77	19.98	45.00
	750	36.38	9.25	34.88	17.70	33.55	25.44	32.34	32.58	31.24	3.17	30.26	45.28	29.39	50.96	28.64	56.25
	900	45.05	11.10	43.54	21.24	42.22	30.53	41.00	39.09	39.91	47.01	38.92	54.34	38.06	61.15	37.31	67.50
	1050	53.71	12.95	52.21	24.77	50.88	35.62	49.67	45.61	48.57	54.84	47.59	63.39	46.72	71.34	45.97	78.75
	1200	62.37	14.80	60.87	28.31	59.54	40.71	58.33	52.12	57.23	62.67	56.25	72.45	55.38	81.54	54.63	90.00
	1350	71.03	16.65	69.53	31.85	68.20	45.80	66.99	58.64	65.89	70.51	64.91	81.51	64.04	91.73	63.29	101.3
	1500	79.70	18.50	78.19	35.39	76.87	50.89	75.65	65.16	74.56	78.34	73.57	90.56	72.71	101.9	71.96	112.5

Units : kW

0.37
11
55
300

0.75
15
75
375

1.5
18.5
90
450

2.2
22
110
525

3.7
30
150
600

5.5
37
185
675

7.5
45
225
750

* 1000 mmH₂O = Approx 0.1 kg/cm² = Approx 0.01 MPa

PRESSURE ROOTS BLOWER

Performance table Qs(m ³ /min) PRESSURE(mmH ₂ O) La(kW)																	
TYPE	RPM	1000 mmH ₂ O		2000 mmH ₂ O		3000 mmH ₂ O		4000 mmH ₂ O		5000 mmH ₂ O		6000 mmH ₂ O		7000 mmH ₂ O		8000 mmH ₂ O	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
SCB-300	600	58.94	14.44	55.49	25.88	58.83	37.23	52.04	47.70	50.48	58.83	49.26	68.88	47.59	79.49	46.70	88.83
	750	75.62	18.06	72.17	32.35	70.39	46.54	68.72	59.63	67.16	73.53	65.94	86.10	64.27	99.36	63.38	111.0
	900	92.30	21.67	88.85	38.82	87.07	55.85	85.40	71.55	83.84	88.24	82.62	103.3	80.95	119.2	80.06	133.3
	1050	109.0	25.28	105.5	45.29	103.8	65.16	102.1	83.48	100.5	103.0	99.30	120.5	97.63	139.1	96.74	155.5
	1200	125.7	28.89	122.2	51.76	120.4	74.46	118.8	95.41	117.2	117.7	116.0	137.8	114.3	159.0	113.4	177.7
	1350	142.3	32.50	138.9	58.23	137.1	83.77	135.4	107.3	133.9	132.4	132.7	155.0	131.0	178.9	130.1	199.9
	1500	159.0	36.11	155.6	64.70	153.8	93.08	152.1	119.3	150.6	147.1	149.3	172.2	146.8	198.7	146.8	222.1
SCB-350	600	138.3	32.31	133.1	58.00	129.0	83.48	125.2	109.6	121.9	134.1	119.1	160.3	116.3	182.7	113.5	212.3
	700	163.8	37.70	158.6	67.67	154.5	97.39	150.7	127.9	147.4	156.4	144.6	187.1	141.8	213.2	139.0	247.7
	800	189.3	43.08	184.1	77.33	180.0	111.3	176.2	146.2	172.9	178.8	170.1	213.8	167.3	243.7	164.5	283.1
	900	214.8	48.47	209.6	87.00	205.5	125.2	201.7	164.5	198.4	201.1	195.6	240.5	192.8	274.1	190.0	318.5
	1000	240.3	53.85	235.1	96.67	231.0	139.1	227.2	182.7	223.9	223.4	221.1	267.2	218.3	304.6	215.5	353.9
	1100	265.8	59.24	260.6	106.3	256.5	153.0	252.7	201.0	249.4	245.8	246.6	294.0	243.8	335.0	241.0	389.2
	1200	291.3	64.62	286.1	116.0	282.0	167.0	278.2	219.3	274.9	268.1	272.1	320.7	269.3	365.5	266.5	424.6
SCB-400	600	236.3	53.28	230.3	95.65	225.5	137.67	221.3	180.8	217.6	221.1	214.1	264.4	211.3	301.4	208.8	350.1
	650	257.4	57.73	251.4	103.62	246.5	149.14	242.3	195.9	238.6	239.5	235.2	286.5	232.3	326.5	229.8	379.3
	700	278.4	62.17	272.4	111.59	267.5	160.62	263.3	210.9	259.6	257.9	256.2	308.5	253.4	351.6	250.8	408.5
	750	299.4	66.61	293.4	119.56	288.6	172.1	284.4	226.0	280.7	276.4	277.2	330.5	274.4	376.7	271.9	437.7
	800	320.4	71.05	314.4	127.53	309.6	183.6	305.4	241.1	301.7	294.8	298.2	352.6	295.4	401.8	292.9	466.8
	850	341.5	75.49	335.5	135.51	330.6	195.0	326.4	256.1	322.7	313.2	319.3	374.6	316.4	426.9	313.9	496.0
	900	362.5	79.93	356.5	143.5	351.6	206.5	347.4	271.2	343.7	331.6	340.3	396.7	337.5	452.0	335.0	525.2

Units : kW

0.37
11
55
300

0.75
15
75
375

1.5
18.5
90
450

2.2
22
110
525

3.7
30
150
600

5.5
37
185
675

7.5
45
225
750

* 1000 mmH₂O = Approx 0.1 kg/cm² = Approx 0.01 MPa

VACUUM ROOTS BLOWER

Vacuum Roots Blower performance table Qs(m ³ /min) PRESSURE(mmH ₂ O) La(kW)																	
TYPE	RPM	-1000 mmH ₂ O		-2000 mmH ₂ O		-2500 mmH ₂ O		-3000 mmH ₂ O		-3500 mmH ₂ O		-4000 mmH ₂ O		-4500 mmH ₂ O		-5000 mmH ₂ O	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
SCBV-40	1650	0.48	0.15	0.46	0.29	0.44	0.36	0.43	0.42	0.40	0.48	0.38	0.54	—	—	—	—
	1800	0.54	0.17	0.52	0.32	0.50	0.39	0.49	0.46	0.46	0.52	0.44	0.59	—	—	—	—
	1950	0.60	0.18	0.58	0.35	0.56	0.42	0.55	0.50	0.52	0.57	0.50	0.64	—	—	—	—
	2100	0.66	0.20	0.64	0.37	0.62	0.46	0.61	0.54	0.58	0.61	0.56	0.69	—	—	—	—
	2250	0.72	0.21	0.70	0.40	0.68	0.49	0.67	0.57	0.64	0.66	0.62	0.73	—	—	—	—
	2400	0.78	0.22	0.76	0.43	0.74	0.52	0.73	0.61	0.70	0.70	0.68	0.78	—	—	—	—
	2550	0.84	0.24	0.82	0.45	0.80	0.55	0.79	0.65	0.76	0.74	0.74	0.83	—	—	—	—
SCBV-50	850	0.99	0.41	0.82	0.80	0.72	0.98	0.61	1.16	0.51	1.34	0.36	1.51	0.27	1.67	0.14	1.84
	1000	1.31	0.48	1.14	0.94	1.04	1.16	0.93	1.37	0.83	1.57	0.69	1.77	0.59	1.97	0.46	2.16
	1150	1.63	0.56	1.47	1.08	1.36	1.33	1.25	1.57	1.15	1.81	1.01	2.04	0.91	2.27	0.79	2.49
	1300	1.95	0.63	1.79	1.22	1.69	1.50	1.58	1.78	1.48	2.05	1.33	2.31	1.24	2.56	1.11	2.81
	1450	2.27	0.70	2.11	1.36	2.01	1.68	1.90	1.98	1.80	2.28	1.65	2.57	1.56	2.86	1.43	3.13
	1600	2.60	0.77	2.43	1.50	2.33	1.85	2.22	2.19	2.12	2.52	1.97	2.84	1.88	3.15	1.75	3.46
	1750	2.92	0.85	2.75	1.64	2.65	2.02	2.54	2.39	2.44	2.75	2.29	3.11	2.20	3.45	2.07	3.78
SCBV-65	850	2.09	0.66	1.91	1.28	1.80	1.58	1.68	1.87	1.55	2.15	1.41	2.42	1.26	2.69	1.09	2.95
	1000	2.60	0.78	2.43	1.51	2.32	1.86	2.19	2.20	2.07	2.53	1.92	2.85	1.77	3.16	1.60	3.47
	1150	3.12	0.89	2.95	1.73	2.84	2.14	2.71	2.53	2.58	2.91	2.44	3.28	2.29	3.64	2.12	3.99
	1300	3.64	1.01	3.46	1.96	3.35	2.41	3.23	2.86	3.10	3.29	2.96	3.71	2.81	4.11	2.64	4.51
	1450	4.15	1.13	3.98	2.19	3.87	2.69	3.74	3.19	3.62	3.67	3.47	4.13	3.32	4.59	3.15	5.03
	1600	4.67	1.24	4.50	2.41	4.39	2.97	4.26	3.52	4.13	4.04	3.99	4.56	3.84	5.06	3.67	5.55
	1750	5.19	1.36	5.01	2.64	4.90	3.25	4.78	3.85	4.65	4.42	4.51	4.99	4.36	5.54	4.19	6.08
SCBV-80	850	3.24	1.12	2.83	2.14	2.60	2.62	2.26	3.08	2.10	3.52	1.83	3.94	1.54	4.34	1.23	4.73
	1000	4.14	1.32	3.73	2.52	3.50	3.08	3.26	3.62	3.00	4.14	2.73	4.63	2.44	5.11	2.13	5.57
	1150	5.04	1.51	4.63	2.90	4.40	3.54	4.16	4.16	3.90	4.76	3.63	5.33	3.34	5.88	3.03	6.40
	1300	5.94	1.71	5.53	3.27	5.30	4.01	5.06	4.71	4.80	5.38	4.53	6.02	4.24	6.64	3.93	7.24
	1450	6.84	1.91	6.43	3.65	6.20	4.47	5.96	5.25	5.70	6.00	5.43	6.72	5.14	7.41	4.83	8.08
	1600	7.74	2.11	7.33	4.03	7.10	4.93	6.86	5.79	6.60	6.62	6.33	7.41	6.04	8.18	5.73	8.91
	1750	8.64	2.30	8.23	4.41	8.00	5.39	7.76	6.33	7.50	7.24	7.23	8.11	6.94	8.94	6.63	9.75
SCBV-100	850	5.79	1.57	5.19	3.00	4.85	3.67	4.48	4.31	4.09	4.92	3.67	5.51	3.22	6.08	2.74	6.63
	1000	7.05	1.84	6.45	3.53	6.11	4.31	5.74	5.07	5.35	5.79	4.93	6.49	4.48	7.15	4.00	7.80
	1150	8.31	2.12	7.71	4.05	7.37	4.96	7.00	5.83	6.61	6.66	6.19	7.46	5.74	8.23	5.26	8.97
	1300	9.57	2.40	8.97	4.58	8.63	5.61	8.26	6.59	7.87	7.53	7.45	8.43	7.00	9.30	6.52	10.14
	1450	10.83	2.67	10.23	5.11	9.89	6.25	9.52	7.35	9.13	8.40	8.71	9.41	8.26	10.37	7.78	11.31
	1600	12.09	2.95	11.49	5.64	11.15	6.90	10.78	8.11	10.39	9.27	9.97	10.38	9.52	11.45	9.04	12.47
	1750	13.35	3.23	12.75	6.17	12.41	7.55	12.04	8.87	11.65	10.14	11.23	11.35	10.78	12.52	10.30	13.64

Units : kW

* 1000 mmH₂O = Approx 0.1 kg/cm² = Approx 0.01 MPa

0.37	0.75	1.5	2.2	3.7	5.5	7.5
11	15	18.5	22	30	37	45
55	75	90	110	150	185	225
300	375	450	525	600	675	750

VACUUM ROOTS BLOWER

Vacuum Roots Blower performance table Qs(m ³ /min) PRESSURE(mmH ₂ O) La(kW)																	
TYPE	RPM	-1000 mmH ₂ O		-2000 mmH ₂ O		-2500 mmH ₂ O		-3000 mmH ₂ O		-3500 mmH ₂ O		-4000 mmH ₂ O		-4500 mmH ₂ O		-5000 mmH ₂ O	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
SCBV-125	750	10.29	2.59	9.30	4.96	8.78	6.06	8.20	7.13	7.61	8.14	7.01	9.12	6.34	10.06	5.65	10.97
	900	12.69	3.11	11.70	5.95	11.17	7.28	10.60	8.55	10.01	9.77	9.40	10.95	8.73	12.07	8.04	13.16
	1050	15.08	3.63	14.09	6.94	13.57	8.49	12.99	9.98	12.40	11.40	11.79	12.77	11.12	14.09	10.44	15.35
	1200	17.48	4.15	16.49	7.93	15.96	9.70	15.39	11.40	14.79	13.03	14.19	14.59	13.52	16.10	12.83	17.55
	1350	19.87	4.66	18.88	8.92	18.35	10.92	17.78	12.83	17.19	14.66	16.58	16.42	15.91	18.11	15.23	19.74
	1500	22.26	5.18	21.27	9.91	20.75	12.31	20.17	14.25	19.58	16.29	18.98	18.24	18.31	20.12	17.62	21.93
	1650	24.66	5.70	23.67	10.90	23.14	13.34	22.57	15.68	21.98	17.92	21.37	20.07	20.70	22.14	20.01	24.13
SCBV-150	750	13.32	3.34	12.55	6.39	12.14	7.82	11.69	9.19	11.20	10.50	10.68	11.76	10.13	12.97	9.55	14.14
	900	16.40	4.01	15.64	7.67	15.23	9.38	14.78	11.03	14.28	12.60	13.77	14.11	13.21	15.57	12.64	16.97
	1050	19.49	4.68	18.73	8.95	18.32	10.95	17.86	12.86	17.37	14.70	16.86	16.47	16.30	18.16	15.72	19.80
	1200	22.58	5.35	21.81	10.23	21.40	12.51	20.95	14.70	20.46	16.80	19.94	18.82	19.39	20.76	18.81	22.62
	1350	25.66	6.02	24.90	11.50	24.49	14.07	24.04	16.54	23.54	18.90	23.03	21.17	22.47	23.35	21.90	25.45
	1500	28.75	6.68	27.99	12.78	27.58	15.64	27.12	18.38	26.63	21.00	26.12	23.52	25.56	25.95	24.98	28.28
	1650	31.84	7.35	31.08	14.06	30.66	17.20	30.21	20.21	29.72	23.10	29.20	25.88	28.65	28.54	28.07	31.11
SCBV-200	600	17.01	4.84	15.99	9.27	15.42	11.34	14.86	13.32	14.21	15.23	13.49	17.06	12.78	18.82	11.98	20.51
	750	22.68	6.05	21.66	11.58	21.09	14.17	20.53	16.65	19.88	19.04	19.16	21.32	18.45	23.52	17.65	25.64
	900	28.35	7.27	27.33	13.90	26.76	17.01	26.20	19.98	25.55	22.84	24.83	25.59	24.12	28.23	23.32	30.77
	1050	34.02	8.48	33.00	16.22	32.43	19.84	31.87	23.32	31.22	26.65	30.50	29.85	29.79	32.93	28.99	35.89
	1200	39.69	9.69	38.67	18.53	38.10	22.67	37.54	26.65	36.89	30.46	36.17	34.12	35.46	37.64	34.66	41.02
	1350	45.36	10.90	44.34	20.85	43.77	25.51	43.21	29.98	42.56	34.26	41.84	38.38	41.13	42.34	40.33	46.15
	1500	51.03	12.11	50.01	23.17	49.44	28.34	48.88	33.31	48.23	38.07	47.51	42.65	46.80	47.05	46.00	51.28
SCBV-250	600	27.72	7.40	26.22	14.16	23.35	17.32	24.43	20.35	23.45	23.27	22.35	26.06	21.19	28.75	19.98	31.34
	750	36.38	9.25	34.88	17.70	34.01	21.65	33.09	25.44	32.11	29.08	31.01	32.58	29.86	35.94	28.64	39.17
	900	45.05	11.10	43.54	21.24	42.68	25.98	41.75	30.53	40.77	34.90	39.67	39.09	38.52	43.13	37.31	47.01
	1050	53.71	12.95	52.21	24.77	51.34	30.31	50.42	35.62	49.43	40.72	48.34	45.61	47.18	50.31	45.97	54.84
	1200	62.37	14.80	60.87	28.31	60.00	34.64	59.08	40.71	58.10	46.53	57.00	52.12	55.84	57.50	54.63	62.67
	1350	71.03	16.65	69.53	31.85	68.66	38.97	67.74	45.80	66.76	52.35	65.66	58.64	64.51	64.69	63.29	70.51
	1500	79.70	18.50	78.19	35.39	77.33	43.30	76.40	50.89	75.42	58.16	74.32	65.16	73.17	71.88	71.96	78.34
SCBV-300	600	58.94	14.25	56.27	27.26	54.82	33.35	53.15	39.19	51.49	44.80	49.71	50.18	47.70	55.36	45.70	60.34
	750	75.62	17.81	72.95	34.07	71.50	41.69	69.83	48.99	68.17	56.00	66.39	62.72	64.38	69.20	63.38	75.42
	900	92.30	21.38	89.63	40.89	88.18	50.02	86.51	58.79	84.85	67.20	83.07	75.27	81.06	83.04	79.06	90.51
	1050	109.0	24.94	106.3	47.70	104.9	58.36	103.2	68.58	101.5	78.40	99.75	87.81	97.74	96.88	95.74	105.6
	1200	125.7	28.50	123.0	54.52	121.5	66.70	119.9	78.38	118.2	89.60	116.4	100.4	114.4	110.7	112.4	120.7
	1350	142.3	32.06	139.7	61.33	138.2	75.04	136.6	88.18	134.9	100.8	133.1	112.9	131.1	124.6	129.1	135.8
	1500	159.0	35.63	156.3	68.15	154.9	83.37	153.2	98.00	151.6	112.0	149.8	125.4	147.8	138.4	145.8	150.8

Units : kW

* 1000 mmH₂O = Approx 0.1 kg/cm² = Approx 0.01 MPa

0.37	0.75	1.5	2.2	3.7	5.5	7.5
11	15	18.5	22	30	37	45
55	75	90	110	150	185	225
300	375	450	525	600	675	750

VACUUM ROOTS BLOWER

Performance table Qs(m ³ /min) PRESSURE(mmH ₂ O) La(kW)																	
TYPE	RPM	-1000 mmH ₂ O		-2000 mmH ₂ O		-2500 mmH ₂ O		-3000 mmH ₂ O		-3500 mmH ₂ O		-4000 mmH ₂ O		-4500 mmH ₂ O		-5000 mmH ₂ O	
		Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
SCBV-350	600	122.3	28.93	117.0	50.69	113.6	61.15	110.3	73.35	107.3	83.27	104.3	93.55	100.4	105.9	95.39	116.5
	700	144.7	33.75	139.6	59.14	136.2	71.34	132.9	85.57	129.9	97.15	126.9	109.1	123.0	123.5	118.0	135.9
	800	167.3	38.57	162.2	67.58	158.8	81.53	155.5	97.80	152.5	111.0	149.5	124.7	145.6	141.2	140.6	155.4
	900	189.9	43.39	184.8	76.03	181.4	91.72	178.1	110.0	175.1	124.9	172.1	140.3	168.2	158.8	163.2	174.8
	1000	212.5	48.21	207.4	84.48	204.0	101.9	200.7	122.2	197.7	138.8	194.7	155.9	190.8	176.5	185.8	194.2
	1100	235.1	53.03	230.0	92.93	226.6	112.1	223.3	134.5	220.3	152.7	217.3	171.5	213.4	194.1	208.4	213.6
	1200	257.7	57.85	252.6	101.4	249.2	122.3	245.9	146.7	242.9	166.5	239.9	187.1	236.0	211.7	231.0	233.0
SCBV-400	600	236.3	52.99	228.3	95.77	224.6	117.3	219.5	137.9	216.6	159.0	212.4	180.5	209.4	201.8	203.5	223.0
	650	257.4	57.40	249.4	103.7	245.6	127.0	240.5	149.4	237.6	172.3	233.4	195.6	230.5	218.6	224.6	241.5
	700	278.4	61.82	270.4	111.7	266.6	136.8	261.6	160.9	258.6	185.5	254.4	210.6	251.5	235.4	245.6	260.1
	750	299.4	66.23	291.4	119.7	287.6	146.6	282.6	172.4	279.7	198.8	275.4	225.7	272.5	252.2	266.6	278.7
	800	320.4	70.65	312.5	127.7	308.7	156.4	303.6	183.9	300.7	212.0	296.5	240.7	293.5	269.0	287.6	297.3
	850	341.5	75.07	333.5	135.7	329.7	166.1	324.6	195.4	321.7	225.3	317.5	255.8	314.6	285.8	308.7	315.8
	900	362.5	79.48	354.5	143.7	350.7	175.9	345.7	206.9	342.7	238.5	338.5	270.8	355.6	302.6	329.7	334.4

Units : kW

0.37
11
55
300

0.75
15
75
375

1.5
18.5
90
450

2.2
22
110
525

3.7
30
150
600

5.5
37
185
675

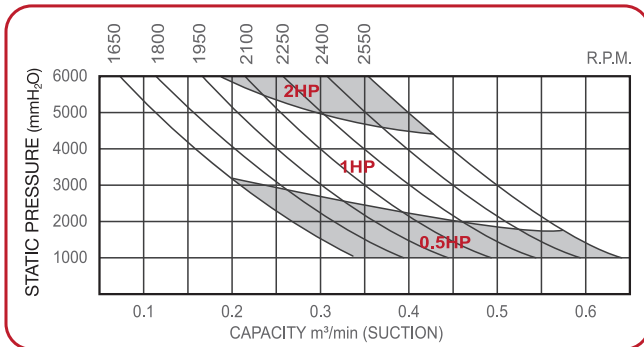
7.5
45
225
750

* 1000 mmH₂O = Approx 0.1 kg/cm² = Approx 0.01 MPa

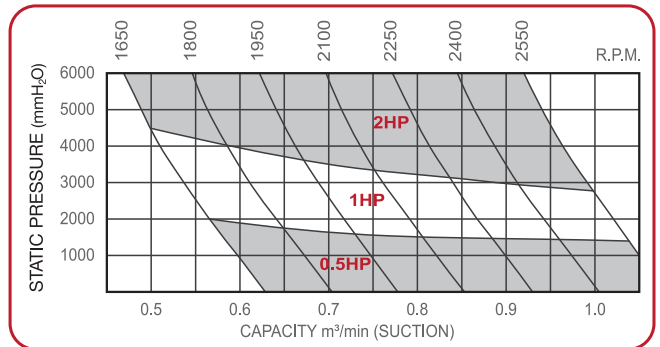


PRESSURE ROOTS BLOWER - PERFORMANCE CURVE

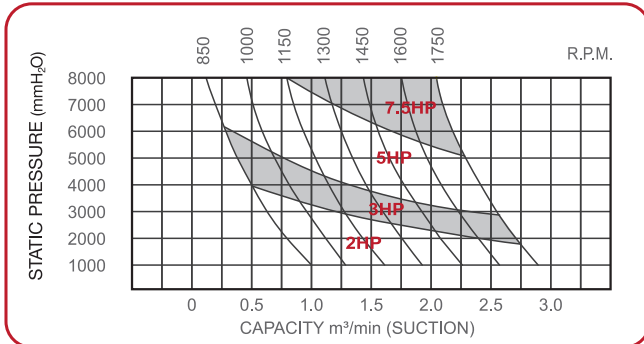
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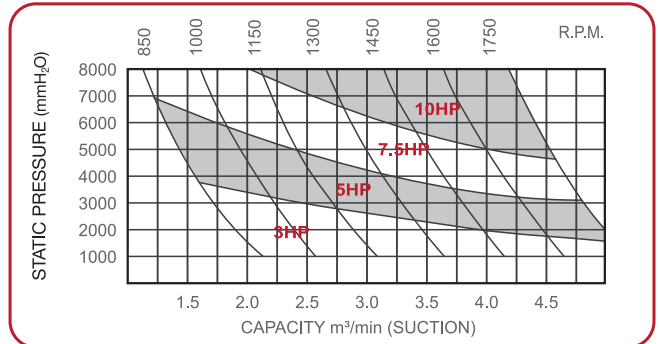
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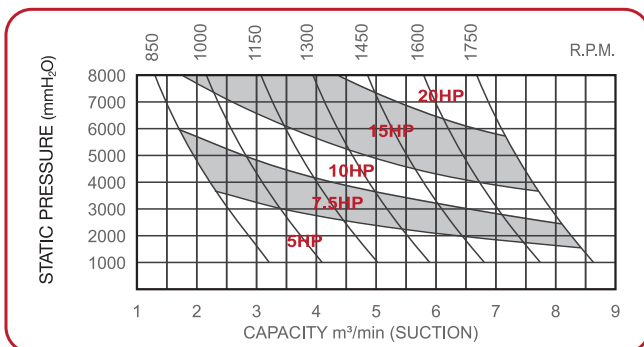
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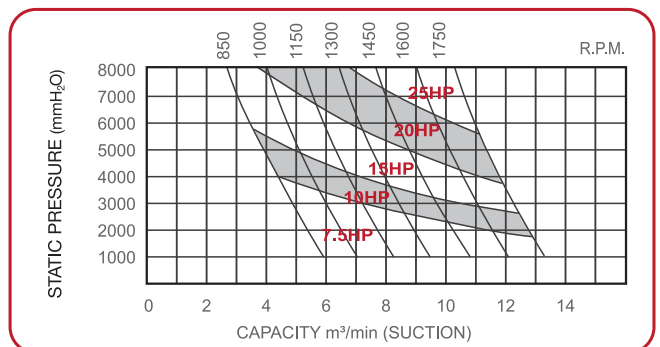
SCB-65



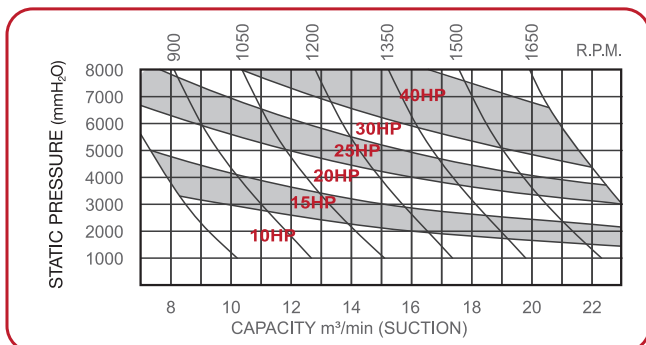
SCB-80



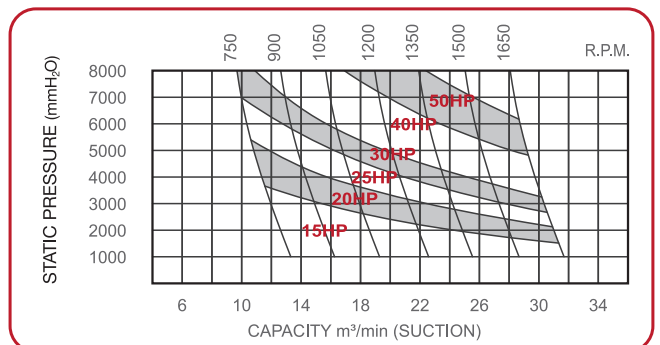
SCB-100



SCB-125

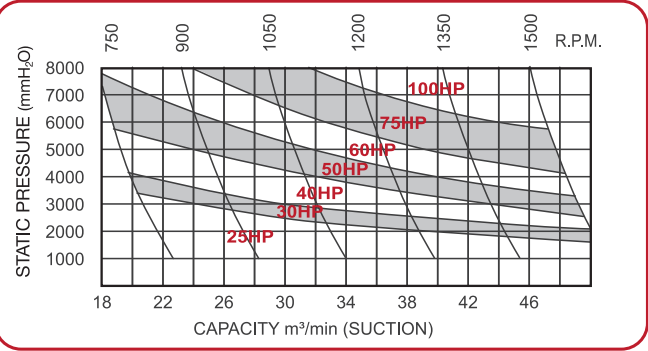


SCB-150

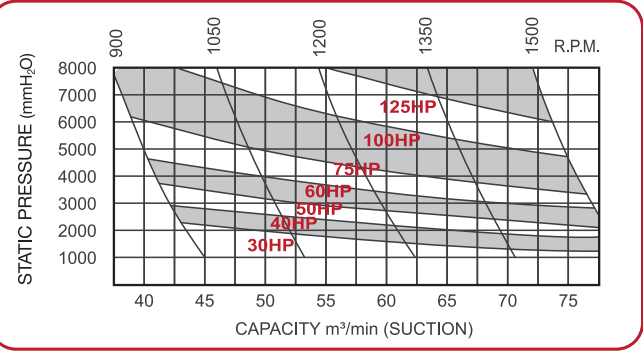


PRESSURE ROOTS BLOWER - PERFORMANCE CURVE

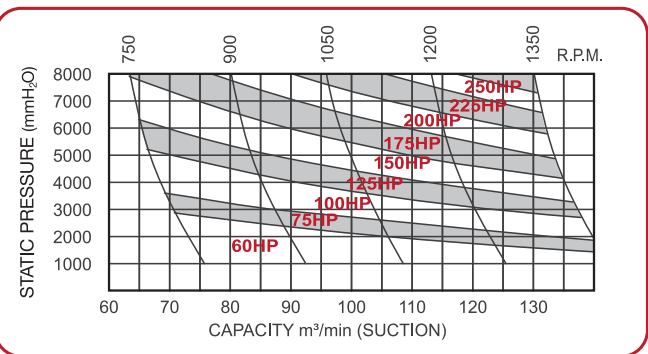
SCB-200



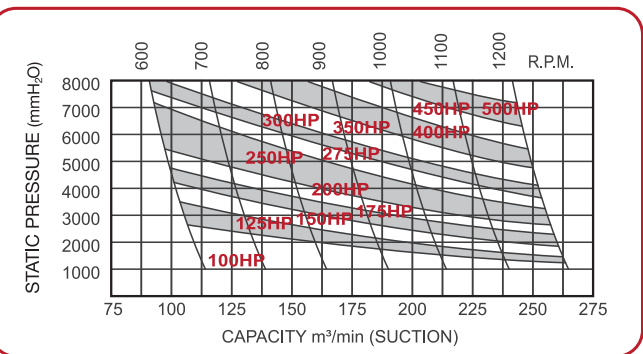
SCB-250



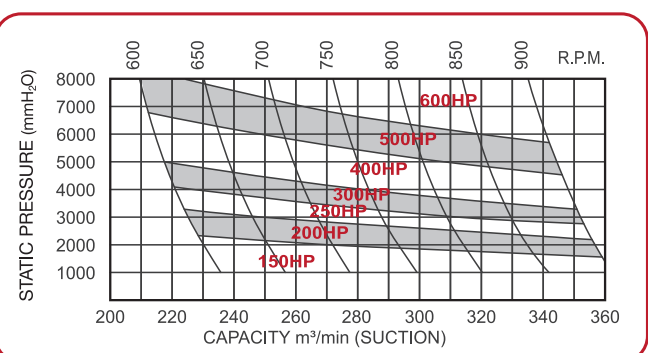
SCB-300



SCB-350

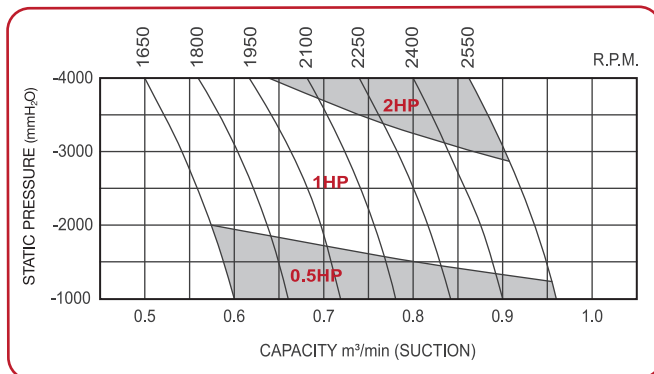


SCB-400

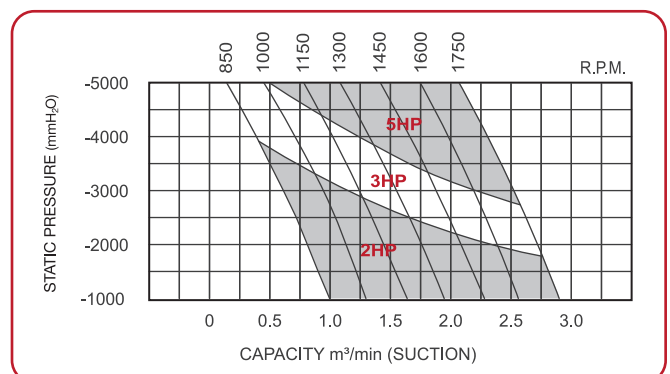


VACUUM ROOTS BLOWER - PERFORMANCE CURVE

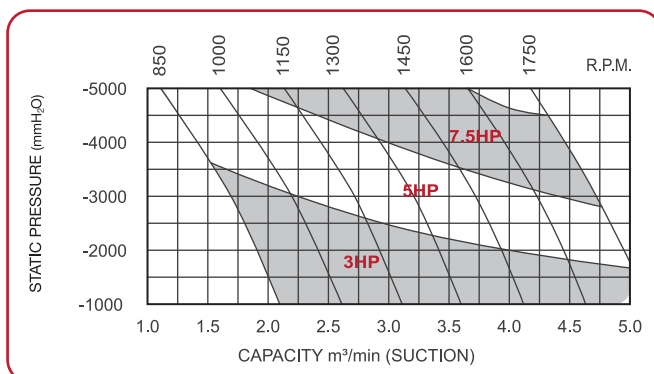
SCBV-40



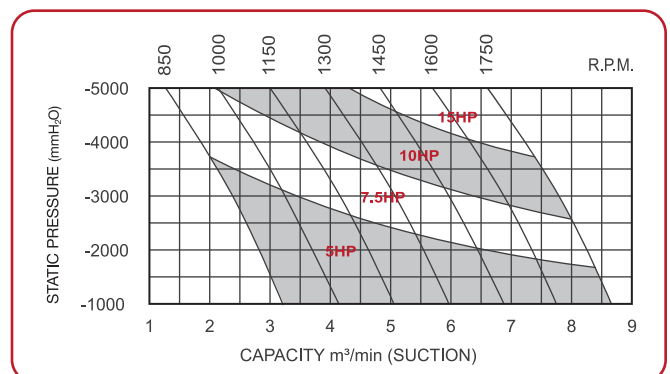
SCBV-50



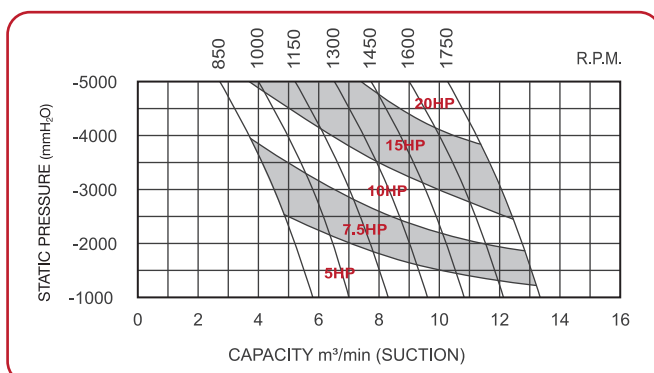
SCBV-65



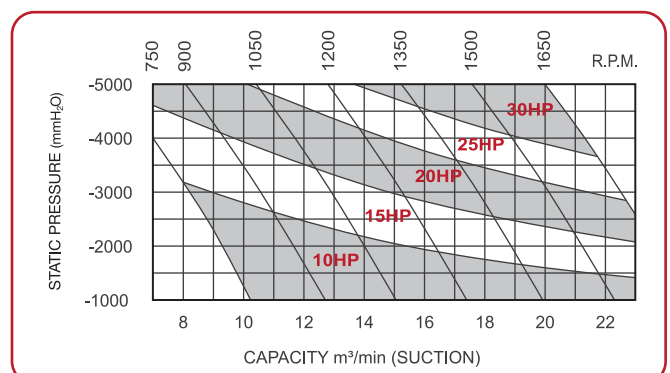
SCBV-80



SCBV-100

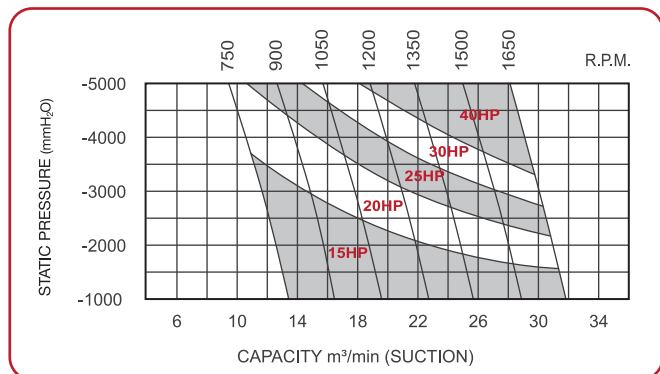


SCBV-125

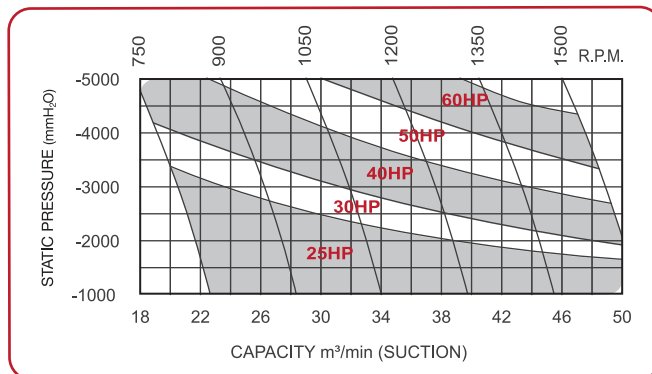


VACUUM ROOTS BLOWER - PERFORMANCE CURVE

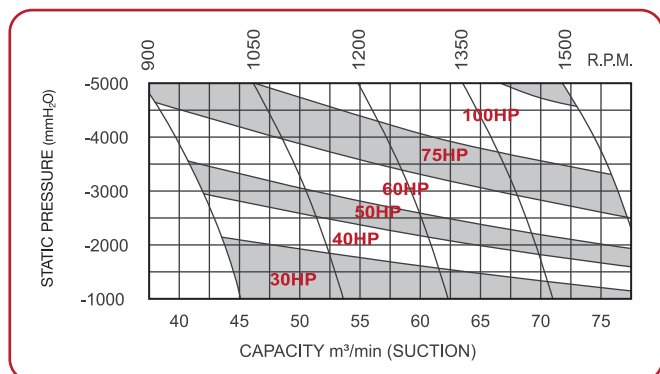
SCBV-150



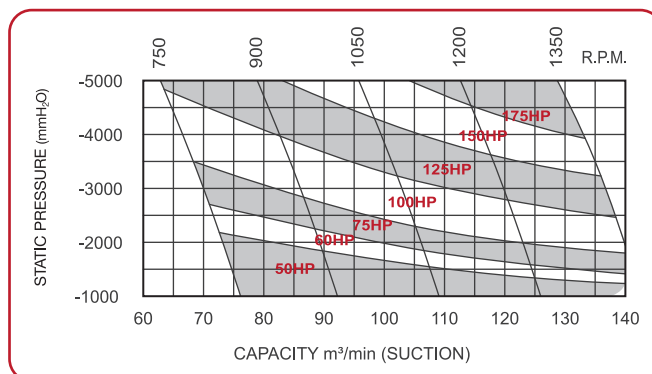
SCBV-200



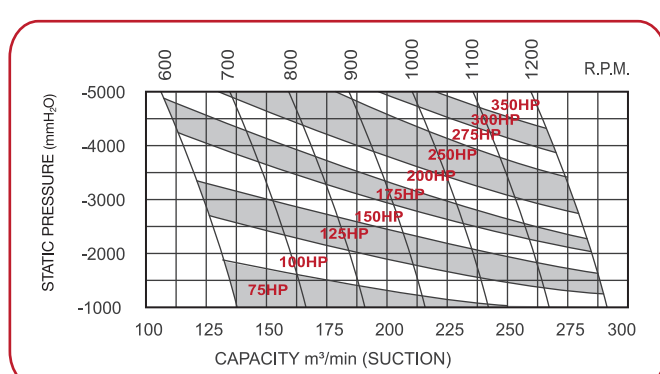
SCBV-250



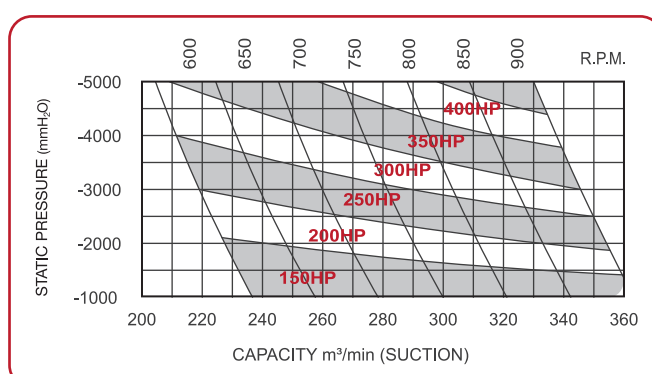
SCBV-300



SCBV-350

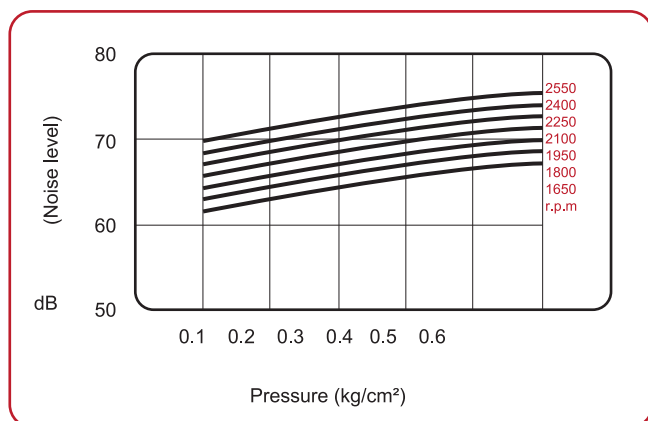


SCBV-400

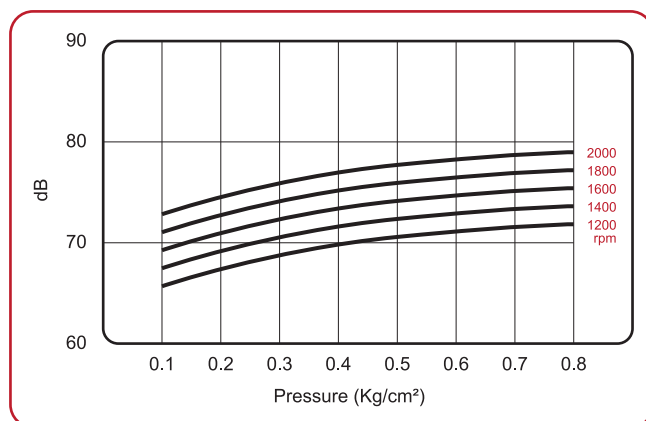


NOISE LEVEL OF BLOWER

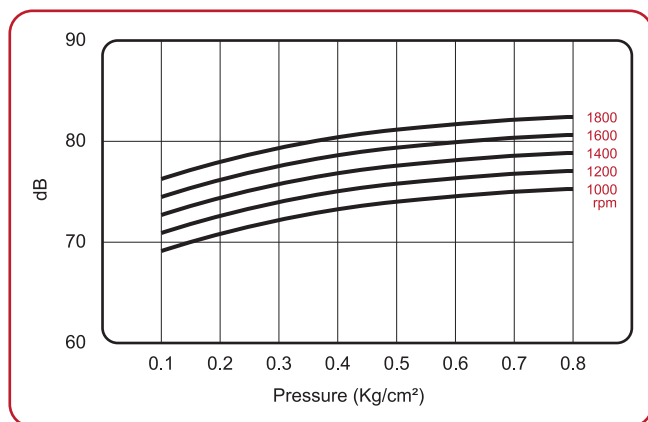
SCB-32



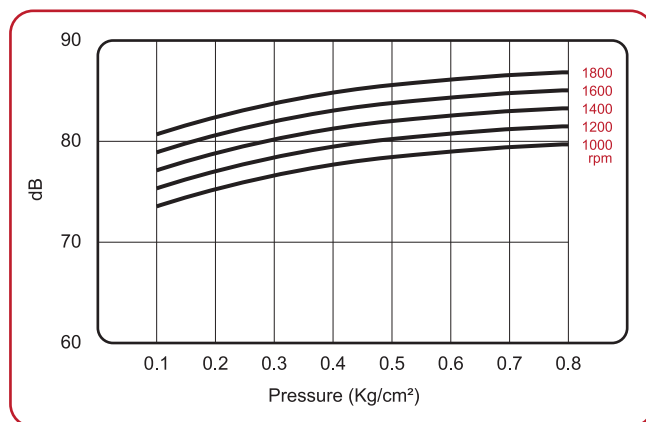
SCB-40



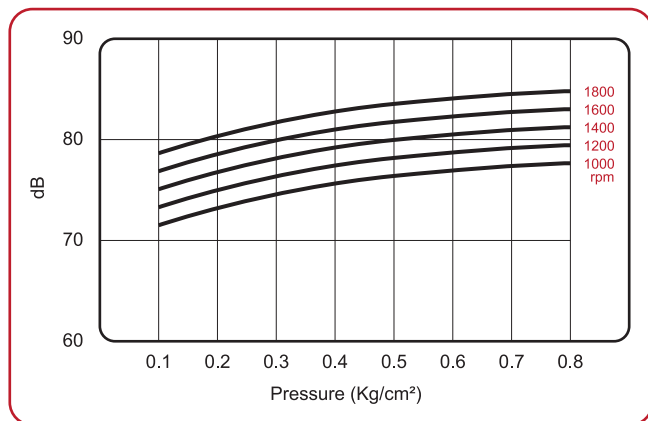
SCB-50



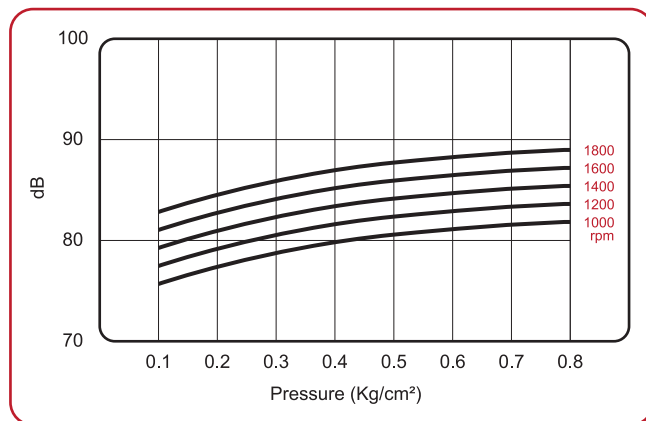
SCB-65



SCB-80

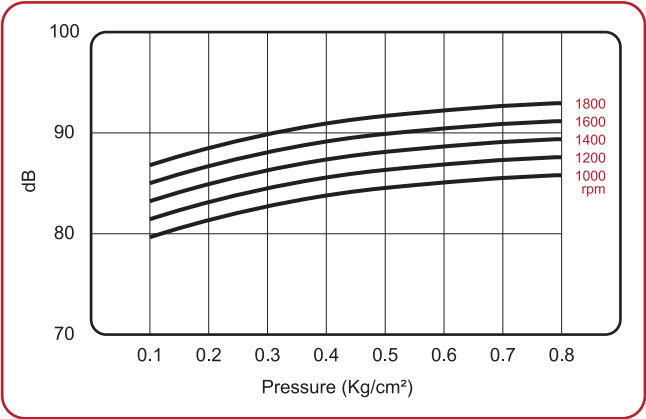


SCB-100

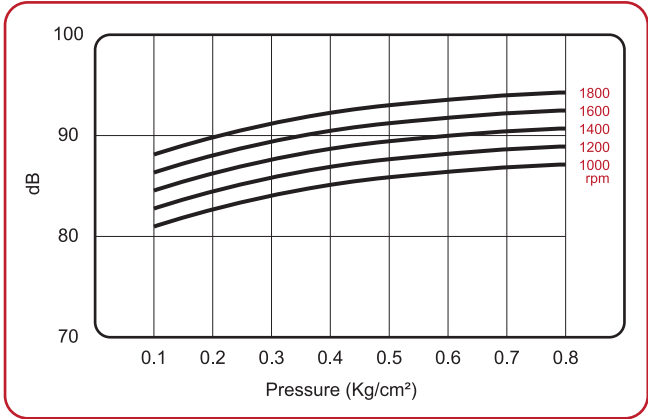


NOISE LEVEL OF BLOWER

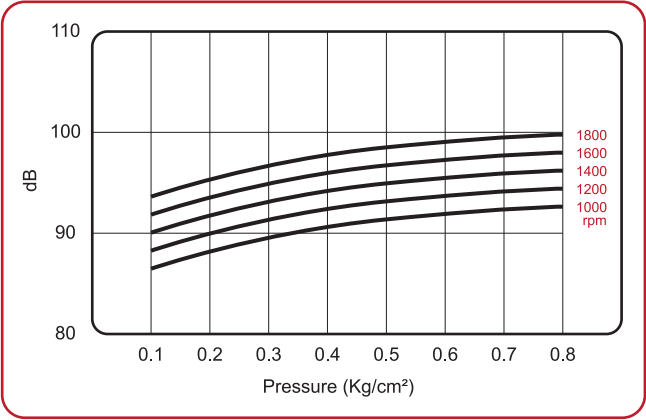
SCB-125



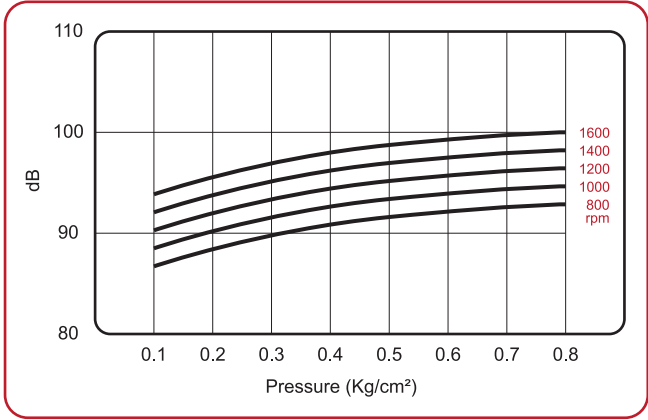
SCB-150



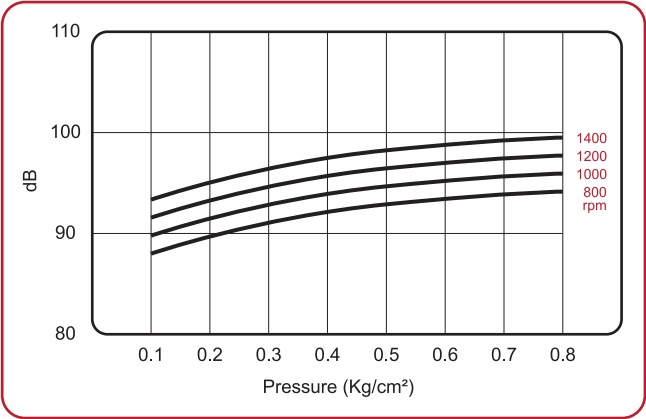
SCB-200



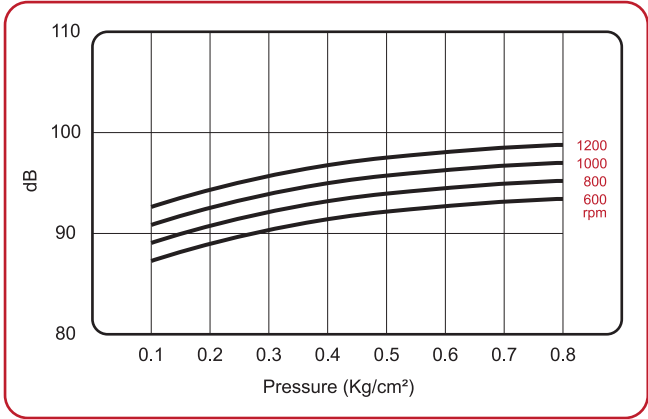
SCB-250



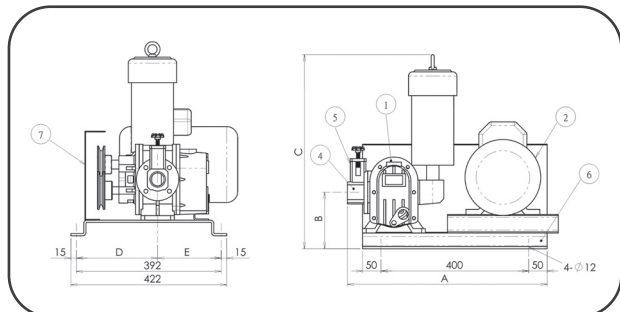
SCB-300



SCB-350

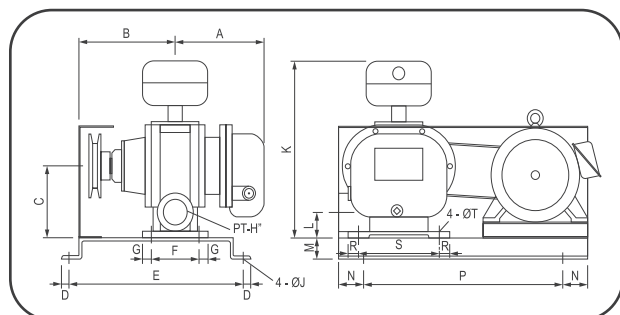


SCB-32

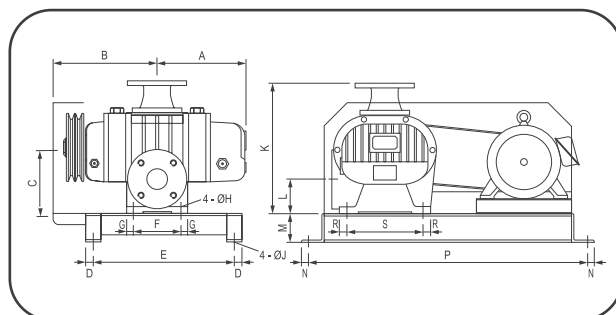


OUTLINE DIMENSIONS

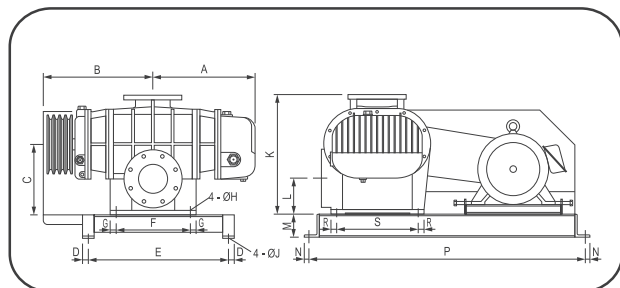
SCB-40



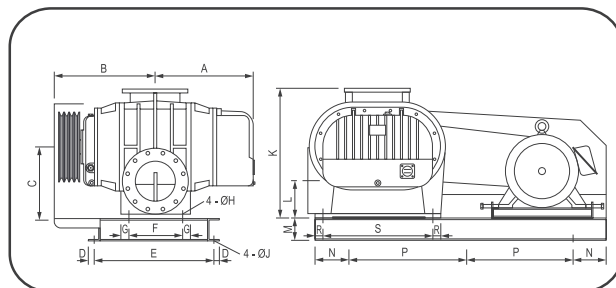
SCB-50 - SCB-65



SCB-80 - SCB-150



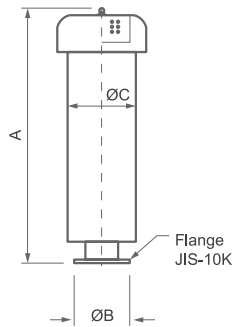
SCB-200 - SCB-250



MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	WT. (Kg)
SCB-032	541	152.5	306.5	200	172	-	-	-	-	-	-	-	-	-	-	-	-	18
SCB-040	150	160	120	15	350	80	15	1.5	12	340	45	50	50	400	18	135	10	70
SCB-050	240	270	165	20	370	125	15	15	15	360	90	75	18	734	15	200	-	100
SCB-065	280	290	165	20	370	210	15	15	15	360	95	75	18	734	15	200	-	120
SCB-080	310	350	220	20	450	190	25	17	15	400	102	75	18	934	25	250	-	200
SCB-100	365	420	220	20	450	290	25	17	15	400	115	75	18	934	25	250	-	230
SCB-125	440	485	310	25	605	320	25	21	19	515	155	100	20	1190	25	350	-	450
SCB-150	495	540	310	25	605	425	25	21	19	515	155	100	20	1190	25	350	-	500
SCB-200	500	510	360	30	730	270	35	23	19	650	187	125	200	550	40	550	-	810
SCB-250	620	620	388	30	730	460	35	23	19	670	225	125	200	550	40	550	-	1100

ACCESSORIES DIMENSIONS

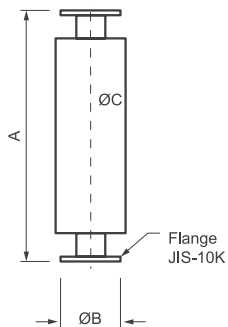
SUCTION SILENCER



UNITS : mm

MODEL	A	B	C	SUITABILITY
O-050	680	50	165	SCB-50
O-065	680	65	165	SCB-65
O-080	800	80	216	SCB-80
O-100	820	100	267	SCB-100
O-125	1300	125	350	SCB-125
O-150	1300	150	350	SCB-150
O-200	2030	200	525	SCB-200
O-250	2030	250	600	SCB-250
O-300	2240	300	700	SCB-300
O-350	2570	350	800	SCB-350

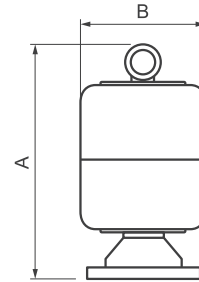
DISCHARGE SILENCER



UNITS : mm

MODEL	A	B	C	SUITABILITY
D-050	660	50	165	SCB-50
D-065	660	65	165	SCB-65
D-080	760	80	216	SCB-80
D-100	760	100	267	SCB-100
D-125	1190	125	350	SCB-125
D-150	1190	150	350	SCB-150
D-200	1735	200	525	SCB-200
D-250	1735	250	600	SCB-250
D-300	1735	300	700	SCB-300
D-350	2230	350	800	SCB-350

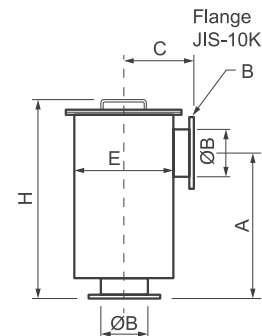
SHORT SUCTION SILENCER



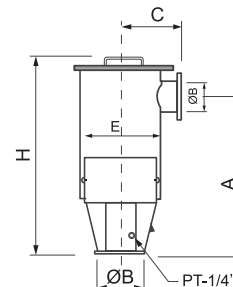
UNITS : mm

MODEL	A	B	SUITABILITY
S-050	320	176	SCB-50
S-065	320	176	SCB-65

FILTER TANK



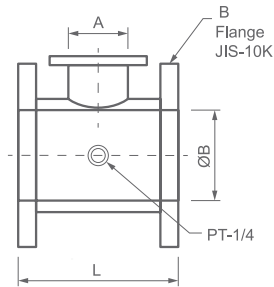
MODEL	A	B	C	E	H
B-050	395	50	180	210	530
B-065	395	65	180	210	530
B-080	480	80	210	270	670
B-100	480	100	210	270	670



MODEL	A	B	C	E	H
B-125	760	125	270	330	770
B-150	760	150	270	330	770
B-200	920	200	370	492	1140
B-250	1092	250	358	492	1340
B-300	1200	300	420	612	1540
B-350	1300	350	515	777	1645

ACCESSORIES DIMENSIONS

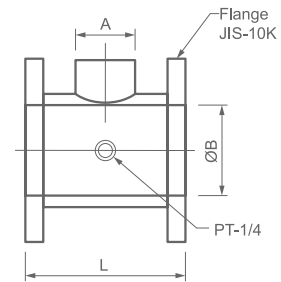
"T" JOINT



UNITS : mm

MODEL	A	B	L	SUITABILITY
T-250	80	250	295	SCB-250
T-300	80	300	350	SCB-300
T-350	125	350	400	SCB-350

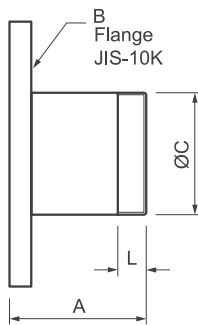
"T" JOINT



UNITS : mm

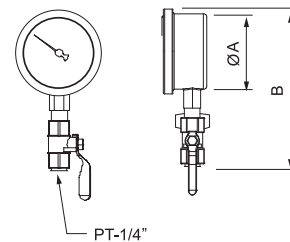
MODEL	A	B	L	SUITABILITY
T-050	40	50	150	SCB-050
T-065	40	65	150	SCB-065
T-080	40	80	165	SCB-080
T-100	40	100	165	SCB-100
T-125	50	125	205	SCB-125
T-150	50	150	210	SCB-150
T-200	50	200	265	SCB-200

TUBE CONNECTOR



MODEL	A	B	C	L	Blower
V-050	95	2"	50	40	SCB-50
V-065	95	2.5"	65	40	SCB-65
V-080	95	3"	80	40	SCB-80
V-100	95	4"	100	40	SCB-100
V-125	155	5"	125	50	SCB-125
V-150	155	6"	150	50	SCB-150
V-200	155	8"	200	60	SCB-200
V-250	155	10"	250	60	SCB-250
V-300	155	12"	300	60	SCB-300
V-350	160	14"	350	70	SCB-350

LIQUID FILLED PRESSURE GAUGE

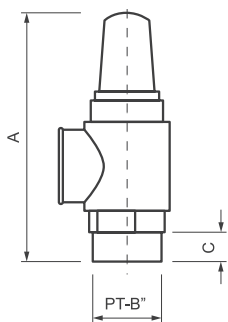


UNITS : mm

MODEL	A	B	SUITABILITY
AC-A	63	133.5	SCB-032-350

ACCESSORIES DIMENSIONS

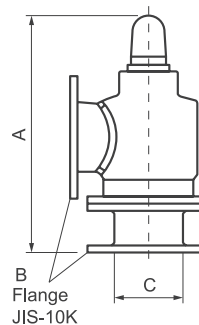
RELIEF VALVE



UNITS : mm

MODEL	A	B	C	SUITABILITY
R-038	132	1.5"	26	SCB-50~100
R-050	150	2"	28	SCB-125~200

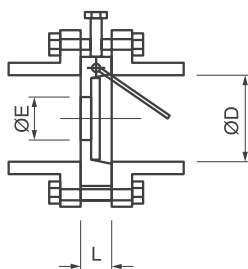
RELIEF VALVE



UNITS : mm

MODEL	A	B	C	SUITABILITY
R-080	485	3"	80	SCB-250~300
R-125	485	5"	125	SCB-350

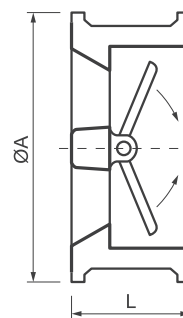
CHECK VALVE



UNITS : mm

MODEL	D	E	L	SUITABILITY
C-050	50	30	17	SCB-050
C-065	65	45	19	SCB-065
C-080	80	55	20	SCB-080
C-100	100	70	20	SCB-100
C-125	125	90	23	SCB-125
C-150	150	110	24	SCB-150
C-200	200	140	28	SCB-200
C-250	250	190	28	SCB-250

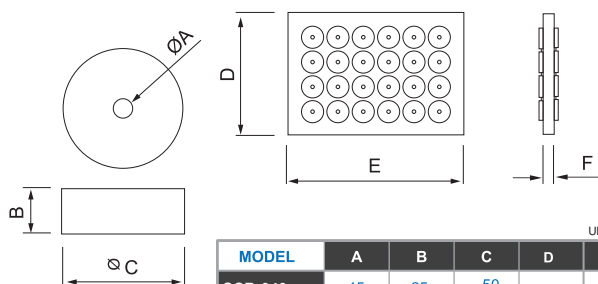
CHECK VALVE



UNITS : mm

MODEL	A	L	SUITABILITY
C-300	377	181	SCB-300
C-350	420	184	SCB-350

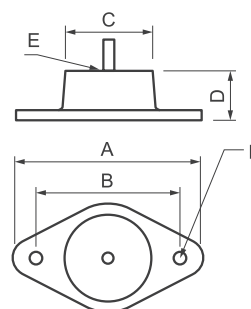
ABSORBER



UNITS : mm

MODEL	A	B	C	D	E	F
SCB-040	15	25	50	-	-	-
SCB-050-065	15	25	75	-	-	-
SCB-080-100	25	39	102	-	-	-
SCB-125-350	-	-	-	101	147	10

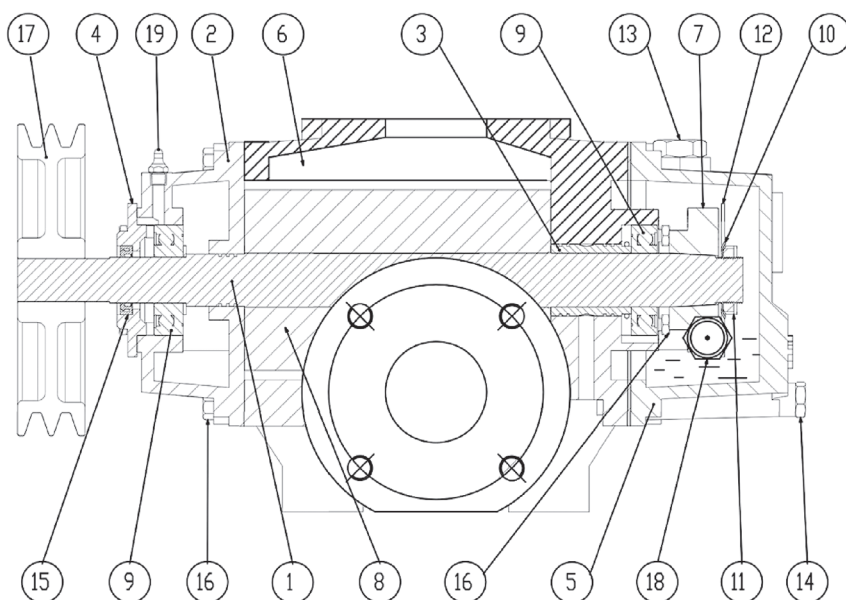
ABSORBER



UNITS : mm

MODEL	A	B	C	D	E	F	SUITABILITY
UJ-200J	142	110	65	55	3/8"	Ø12	0-150
UJ-500J	214	166	100	57	1/2"	Ø14	140-450
UJ-800J	285	220	130	80	1/2"	Ø17	400-750

STRUCTURE & MATERIAL LIST

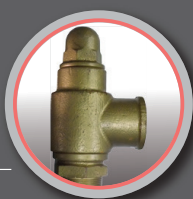


STRUCTURE & MATERIAL LIST

NO.	NAME	MATERIAL
1	Shaft	SCM440
2	Side cover	FC250
3	Labyrinth	SS400
4	Seal case	FC250
5	Oil case	FC250
6	Main casing	FC250
7	Spur gear	SNCM21
8	Rotor	FC250
9	Bearing	SUJ2
10	Washer	SS400
11	Nut	SS400
12	Oil splash	SS400
13	Oil plug	S45C
14	Oil drain	S45C
15	Seal	NBR
16	Screw	SS400
17	Pulley	FC250
18	Oil gauge	S45C
19	Grease Fittings	SA5C

STANDARD ACCESSORIES

RELIEF VALVE



CHECK VALVE



PRESSURE GAUGE



T-JOINT



DISCHARGE SILENCER



SUCTION SILENCER



GREAT DESIGN TECHNICAL INNOVATION

“SCD” Series

Vertical Blower - Silent type

ENERGY SAVING, CARBON REDUCTION
HIGH EFFICIENCY AND SPACE SAVER

■ Performance

Bore Size: 40mm ~ 150mm (1.5" ~ 6")

Capacity: 0.4 ~ 22 m³/min (24 ~ 1320 m³/hr)

Pressure: 0~ 6000 mmAq (0~0.6 kgf/cm²)

■ Advantage

Tri-Lobe Roots Blower

Air cooled and circulated for whole blower.

1. Silent type which generates lower noise than standard root blower
2. Extreme low vibration
3. Saving electricity
4. High efficiency
5. Vertical type designed saves space
6. Stable construction
7. Maintenance easily
8. Cleaner air with Oil free operation
9. Coupling driven without belt

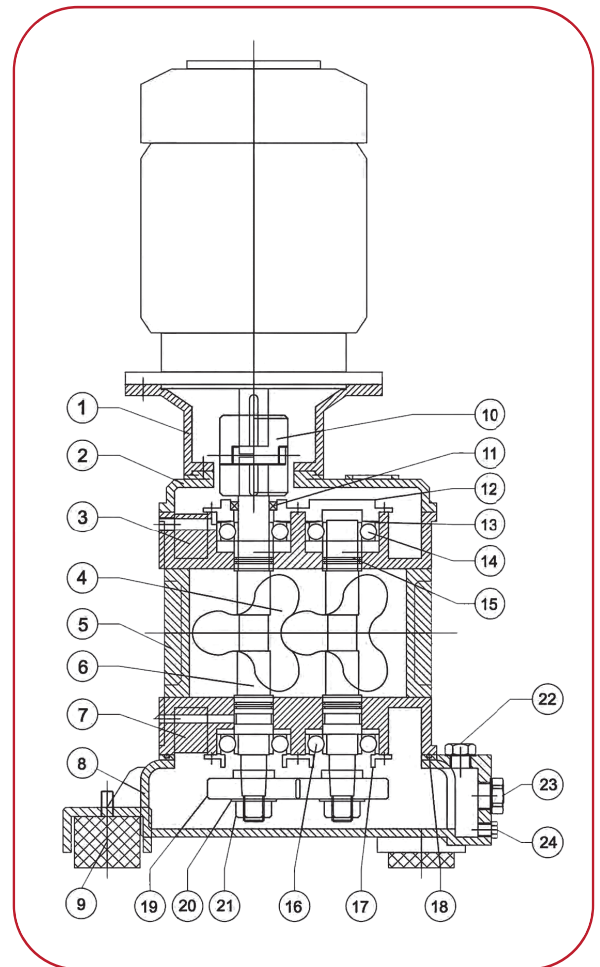
■ Application

Waste Water Treatment, Aquaculture,
Electroplating Industry, Powder Conveyance,
Grain Conveyance, Paper Production,
Food Industry, Semiconductor Industry,
Chemical Industry...etc.

Especially suitable to install in Hospital,
School, Hotel, Residential Area,
Office Building where needed low noise.

STRUCTURE & MATERIAL LIST

No .	Name	Material
01	MOTER CASE	FC250
02	OIL TANK	FC250
03	SIDE COVER	FC250
04	ROTAR	FC250
05	MAIN BODY	FC250
06	SHAFT	SCM440
07	SIDE COVER	FC250
08	OIL TANK	FC250
09	ABSORBER	NBR
10	COUPLING	FC200
11	OIL SEAL	NBR
12	BEARING COVER	S45C
13	DISE SPRING	SS400
14	BEARING	SUJ2
15	LABYRINTH SEAL	S45C
16	BEARING	SUJ2
17	BEARING COVER	S45C
18	O RING	NBR
19	GEAR	SCM415
20	WASHER	S45C
21	NUT	S45C
22	OIL PLUG	S45C
23	OIL GAUGE	S45C
24	OIL DRAIN	S45C



PERFORMANCE TABLE Suction Air & Discharge Pressure

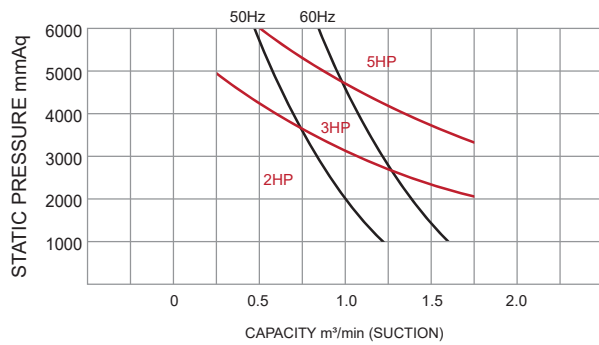
Silent Roots Blower														50HZ - 4P		
Model	Motor	Bore (mm)	Performance table Qs (m³/min)						PRESSURE (mmH₂O)		La (Kw)					
			1000 (mmH₂O)		2000 (mmH₂O)		3000 (mmH₂O)		4000 (mmH₂O)		5000 (mmH₂O)		6000 (mmH₂O)			
			Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La		
SCD40	1.5Kw.	40	1.18	0.72	0.96	1.00	0.79	1.28	-	-	-	-	-	-		
	2.2Kw.	40	1.18	0.72	0.96	1.00	0.79	1.28	0.65	1.58	0.53	1.83	0.41	2.11		
SCD50	1.5Kw.	50	1.59	0.81	1.34	1.17	-	-	-	-	-	-	-	-		
	2.2Kw.	50	1.59	0.81	1.34	1.17	1.15	1.53	0.98	1.89	-	-	-	-		
	3.7Kw.	50	1.59	0.81	1.34	1.17	1.15	1.53	0.98	1.89	0.84	2.25	0.71	2.61		
SCD65	2.2Kw.	65	2.17	0.94	1.82	1.43	1.56	1.92	-	-	-	-	-	-		
	3.7Kw.	65	2.17	0.94	1.82	1.43	1.56	1.92	1.34	2.41	1.14	2.9	0.97	3.39		
SCD80	3.7Kw.	80	4.75	1.58	4.28	2.54	3.92	3.50	-	-	-	-	-	-		
	5.5Kw.	80	4.75	1.58	4.28	2.54	3.92	3.50	3.62	4.46	3.35	5.42	-	-		
	7.5Kw.	80	4.75	1.58	4.28	2.54	3.92	3.50	3.62	4.46	3.35	5.42	3.11	6.39		
SCD100	3.7Kw.	100	5.90	1.82	5.32	3.01	-	-	-	-	-	-	-	-		
	5.5Kw.	100	5.90	1.82	5.32	3.01	4.88	4.21	4.50	5.40	-	-	-	-		
	7.5Kw.	100	5.90	1.82	5.32	3.01	4.88	4.21	4.50	5.40	4.17	6.59	-	-		
SCD125	5.5Kw.	125	9.53	2.93	8.91	4.74	-	-	-	-	-	-	-	-		
	7.5Kw.	125	9.53	2.93	8.91	4.74	8.43	6.54	-	-	-	-	-	-		
	11Kw.	125	9.53	2.93	8.91	4.74	8.43	6.54	8.03	8.35	7.67	10.15	-	-		
	15Kw.	125	9.53	2.93	8.91	4.74	8.43	6.54	8.03	8.35	7.67	10.15	7.35	11.96		

0.75kW=1HP, 1.5kW=2HP, 2.2kW=3HP, 3.7kW=5HP, 5.5kW=7.5HP, 7.5kW=10HP

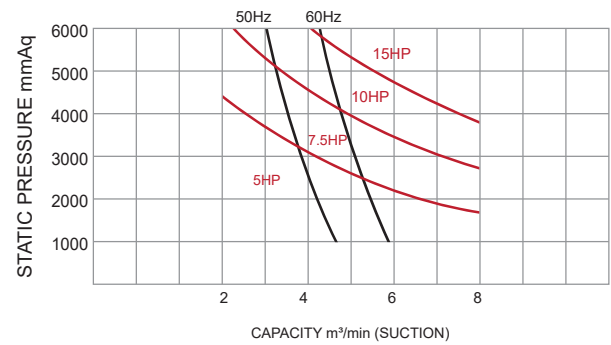
11kW=15HP, 15kW=20HP, 18.5kW=25HP, 22kW=30HP, 30kW=40HP, 37kW=50HP

PERFORMANCE CURVE

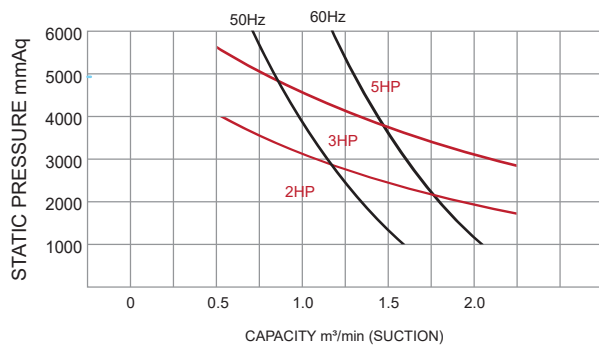
SCD-040



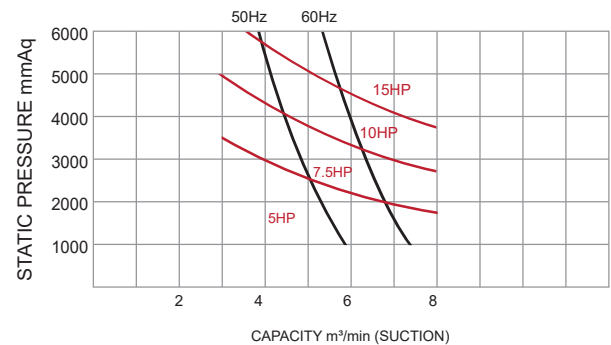
SCD-080



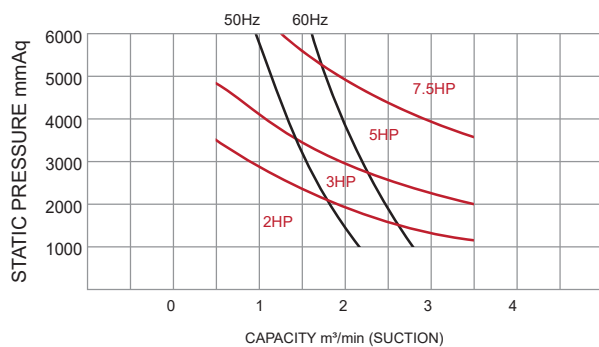
SCD-050



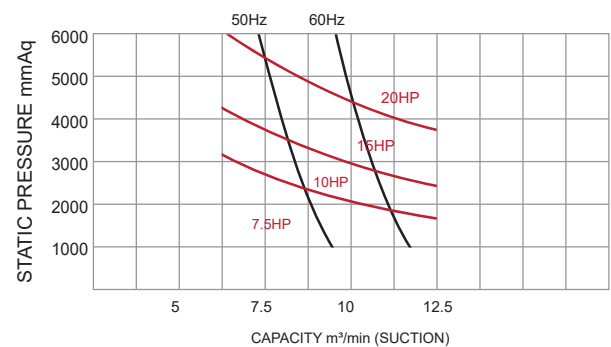
SCD-100



SCD-065

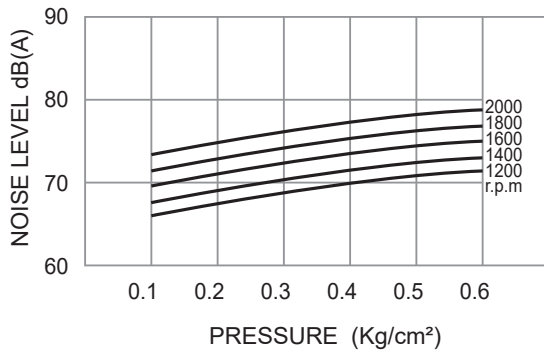


SCD-125

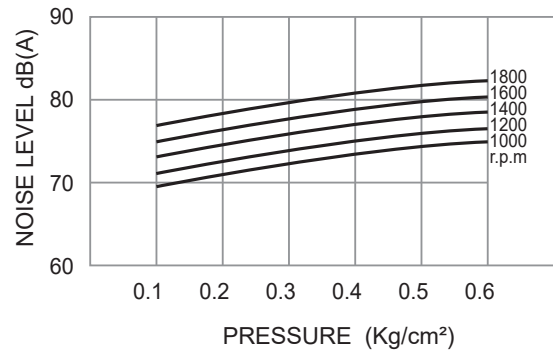


NOISE LEVEL OF BLOWER

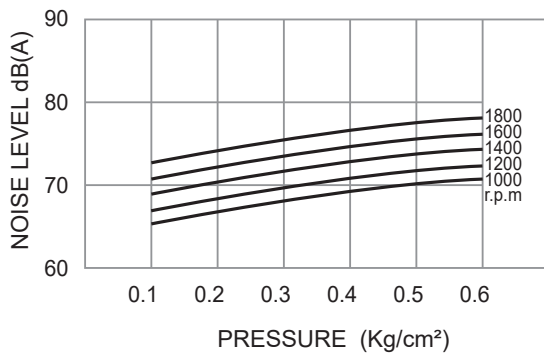
SCD-040



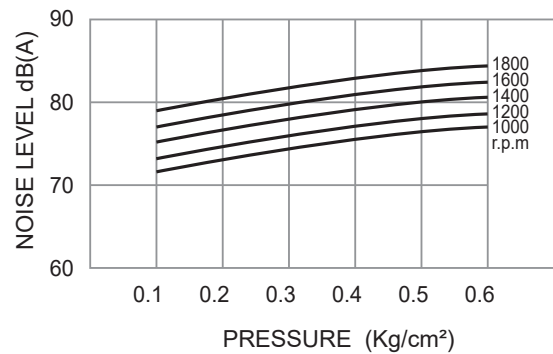
SCD-080



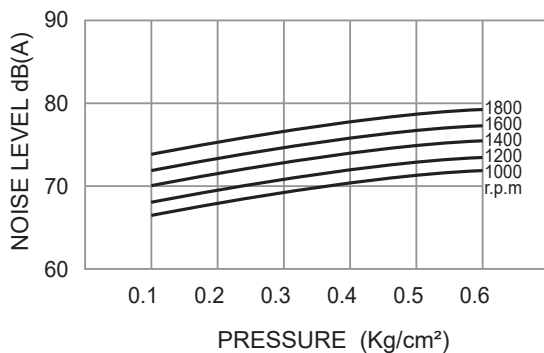
SCD-050



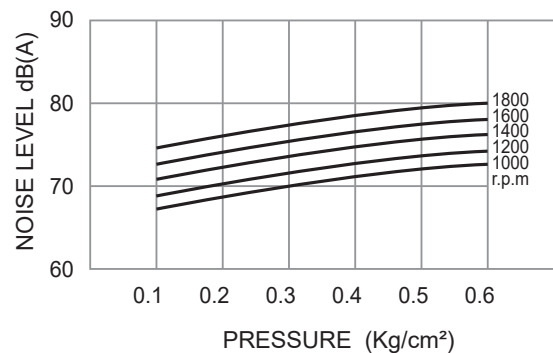
SCD-100



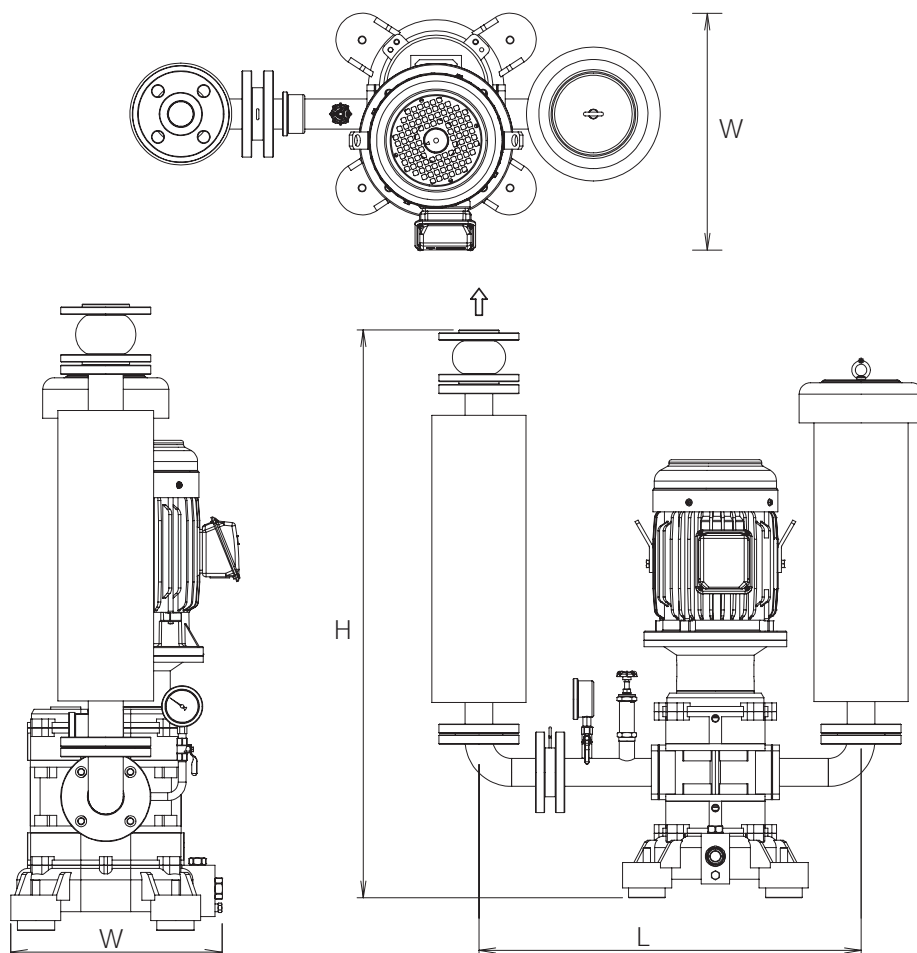
SCD-065



SCD-125



OUTLINE DIMENSIONS



Model	L	W	H
SCD40	669	393	988
SCD50	686	365	1080
SCD65	652	394	1133
SCD80	749	280	1286
SCD100	825	280	1351
SCD125	979	520	1880

UNIT CONVERSION

Pressure

Kgf/cm ²	kPa	mbar	psi	mmAq mmH ₂ O	Torr mmHg
1	98.0665	980.665	14.2231	10,000	735.559
0.010197	1	10	0.145	101.9716	7.50062
0.001019	0.1	1	0.0145	10.19716	0.750062
0.07031	6.895	68.95	1	703.08	51.7157
0.0001	0.009806	0.098	0.001422	1	0.073556
0.00136	0.13332	1.33321	0.019336	13.5951	1

Power

CMM (m ³ /min)	CFM (ft ³ /min)	LPM (l/min)
1	35.32	1000
0.0283	1	28.3125
0.001	0.0353	1

Capacity

kW	HP	PS
1	1.3404	1.3596
0.746	1	1.0143
0.7355	0.9859	1

HOW TO SELECT THE BLOWER MODEL

1. Air volume is general shown in terms of

- (1) Standard state (Qs) :
At 20 °C, 10332 mmH₂O, and RH 65%
- (2) Normal state (Qn) :
At 0 °C, 10332 mmH₂O, and RH 0%

2. Performance table shown the capacity at the standard suction state.

3. Performance table shown the pressure at the static pressure

4. Volume conversion formula

$$Q_2 = Q_1 \times \frac{P_1}{P_2} \times \frac{T_2}{T_1}$$

Q₁ (m³/min): Air volume in P₁ (mmH₂O), T₁ (°K)

Q₂ (m³/min): Air volume in P₂ (mmH₂O), T₁ (°K)

5. Pressure conversion formula

$$(1) \text{ For pressure } P_s = \left(\frac{10332+P_2}{10332+P_1} - 1 \right) \times 10332$$

$$(2) \text{ For vacuum } P_s = \left(\frac{10332+P_1}{10332+P_2} - 1 \right) \times 10332$$

P₁ suction static pressure

P₂ dischargr static pressurre

P₃ static pressure in catalog

6. Example

Operating specification :

Air volume : 8 m³/min

Suction static pressure : -700 mmH₂O

Discharge static pressure : +2100 mmH₂O

Suction temperature : 30 °C

Calculation : Air volume (8 m³/min) converts to STP state

$$Q = 8 \times \frac{10332-700}{10332} \times \frac{273+20}{273+30} = 7.21 \text{ m}^3/\text{min}$$

Static pressure changed to

$$P_s = \left(\frac{10332+2100}{10332-700} - 1 \right) \times 10332 = 3003 \text{ mmH}_2\text{O}$$

Refer to performance curve, you can choose from performance table

7. When different model are able to achieve the same air volume, select smaller model is able to save equipment cost, but bigger model has advantages of lower speed and lower noist.

We reserve the right to change the specifications and designs for improvement without prior notice.

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.

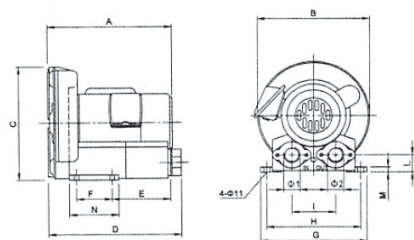
The side Channel Blowers are widely used on : Pneumatic conveying system / Textile machines / printing machine / PCB process / Dust collection / Fish ponds / SPA / Dental suction devices / Paper sorting and delivery / Lifting and holding / Packaging machines

Feature and Advantages

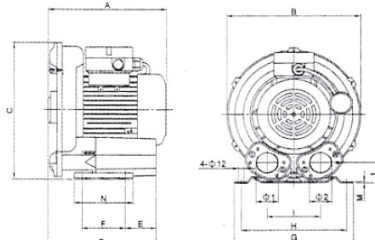
- Casing (except SC80) and impellers are made of aluminum alloy and have excellent features on mechanic strength durability light weight and smooth exterior.
- SC series Side Channel Blowers are designed to comply with the safety requirements of IEC / UL / CSA and have attained their Type Approval.
- 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

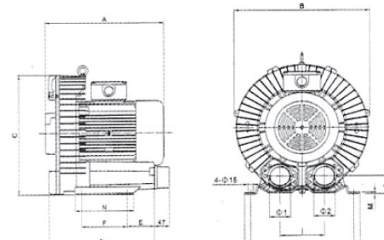
Model	A	B	C	D	E	F	G	H	I	L	M	N	ø1	ø2	Weight Kgs.
SC20-5..	255	228	238	240	87	79	212	190	90	34	12	100	G 1 "	G 1 "	10
SC30-5..	256	250	257	279	117	83	230	205	100	38	12	110	G 1 " 1/4	G 1 " 1/4	13
SC40-4..	261	286	303	238	68	95	255	225	115	46	3	130	G 1 " 1/2	G 1 " 1/2	15.5
SC40-5..	261	286	303	238	68	95	255	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-...

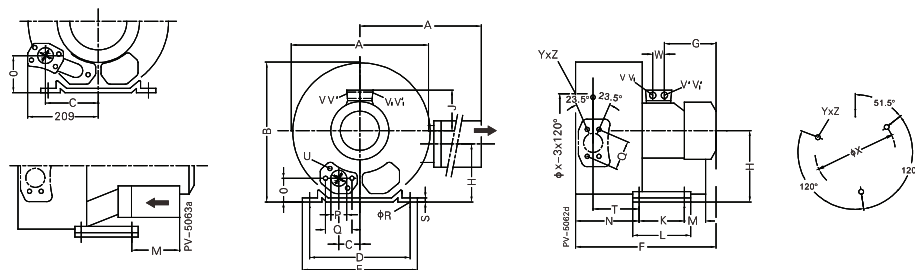


SC40-...



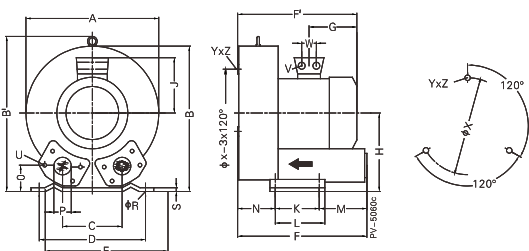
SC50-.../SC60-.../SC80-...

Dimensions



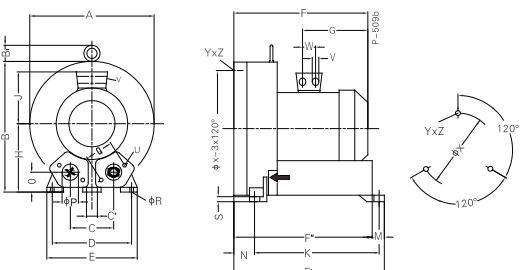
SC520-...

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 _i	V _i '	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°	

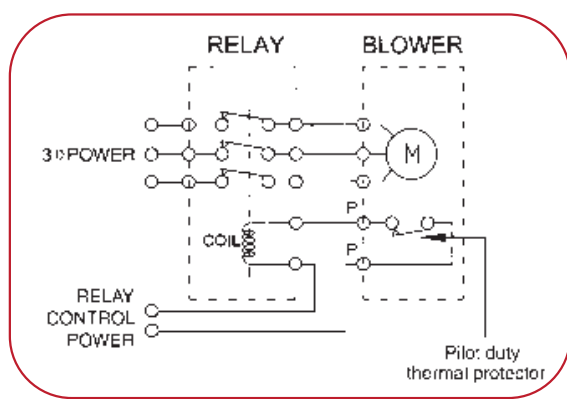
Thermal protection

The following conditions must be considered.

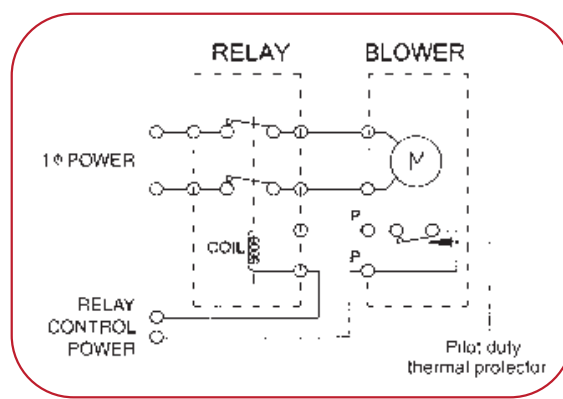
Pilot duty thermal protection:

- 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	200-240/345-415 220-275/380-480	50 Hz	0.4	2.6 / 1.5	130	80	53	2.6 / 1.5	-120	80	53
			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	200-240/345-415 220-275/380-480	50 Hz	0.85	4.2 / 2.4	160	145	63	4.2 / 2.4	-160	145	63
			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	200-240/345-415 200-275/380-480	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
			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

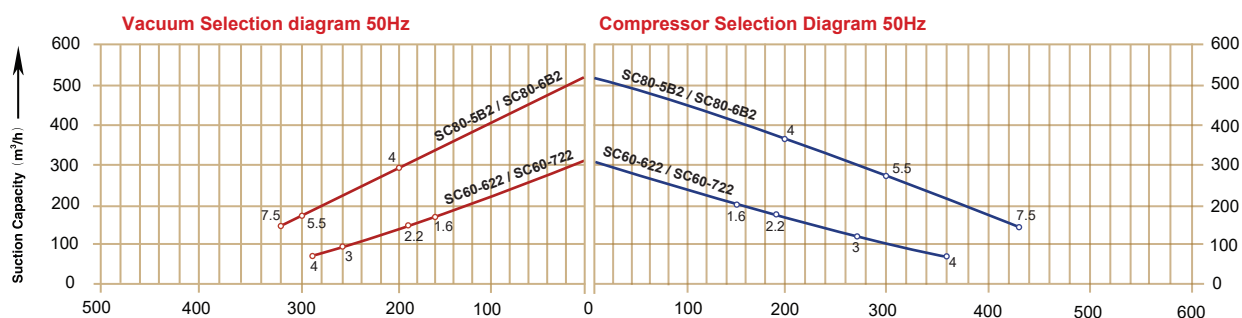
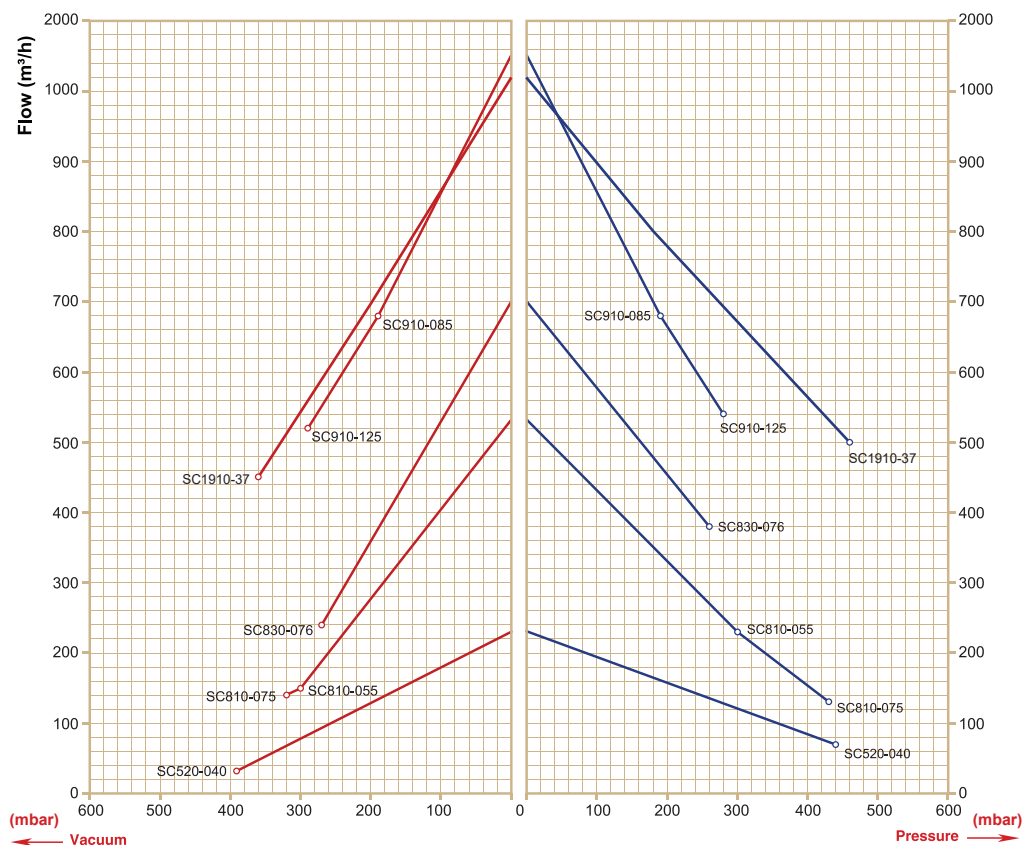
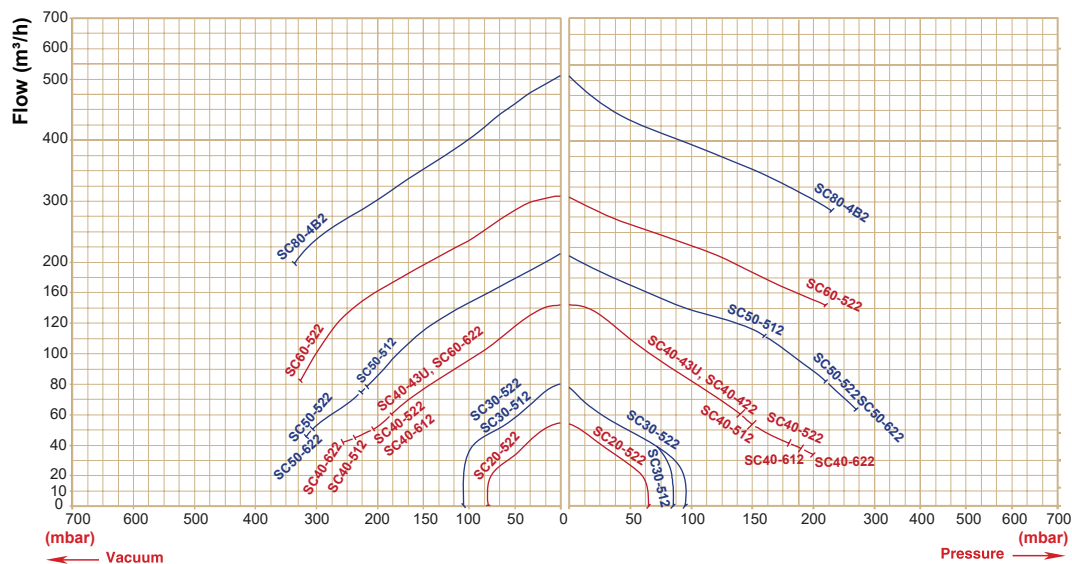
Model	Phase	Voltage	Hz	Rated KW	Blowers with 50 Hz - 60 Hz				Vacuum with 50 Hz - 60 Hz			
					Rated Current Amps	Max. mbar	Max. m³/h	Noise dB (A)	Rated Current Amps	Max. mbar	Max. m³/h	Noise dB (A)
SC50-522	Three	200-240/345-415 200-275/380-480	50 Hz	1.5	7.44-8.76 / 4.36-6	220	210	72	6.72-8.52 / 4.07-5.94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



SC Series



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

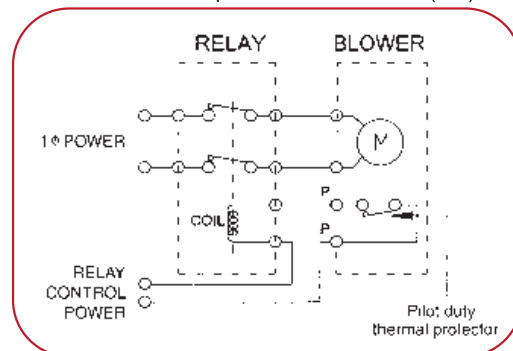
Thermal Protection

The following conditions must be considered.

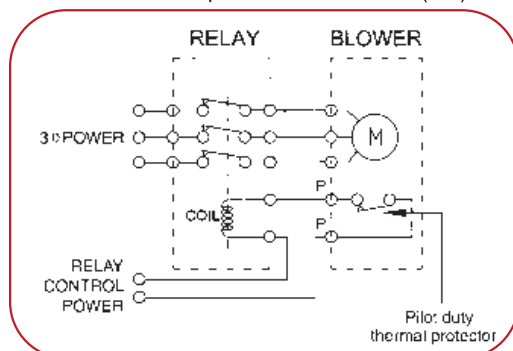
Pilot duty thermal protection :

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

Recommended protector connection (1 ϕ)



Recommended protector connection (3 ϕ)



2SC Series



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					
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

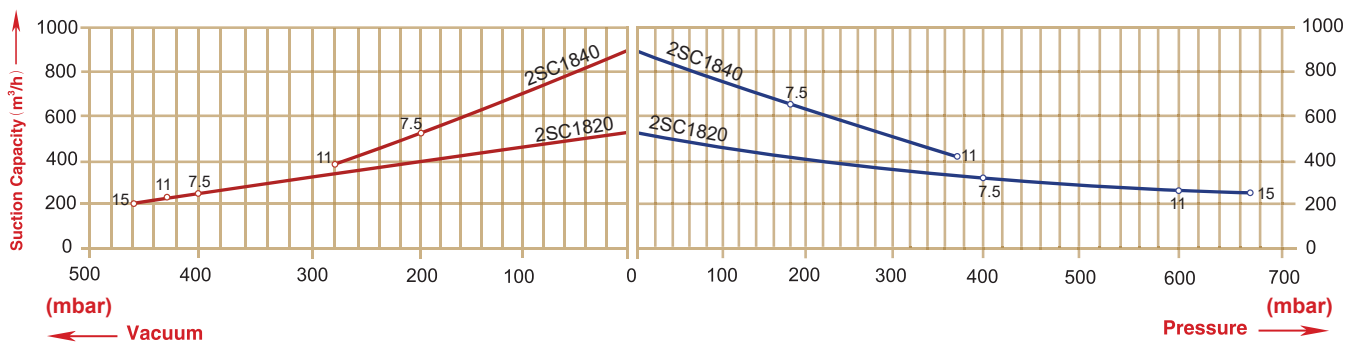
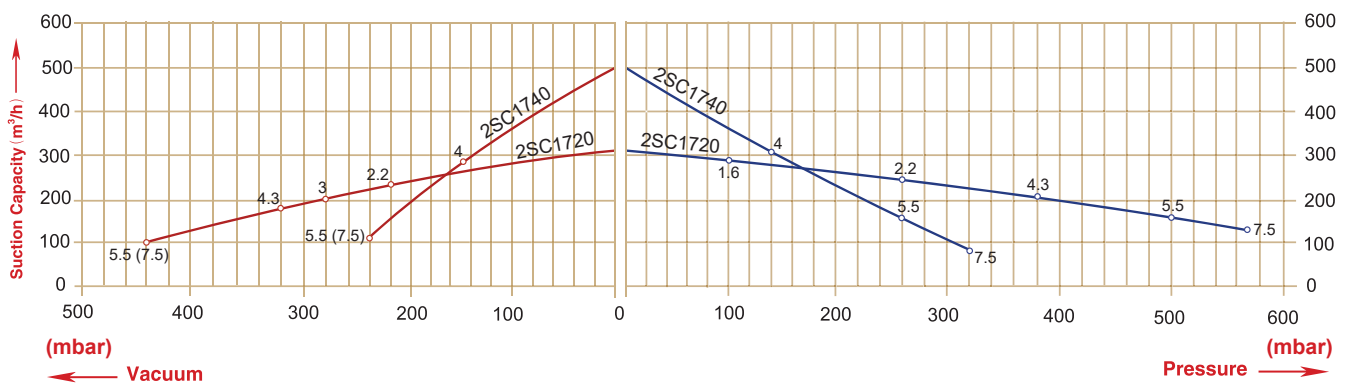
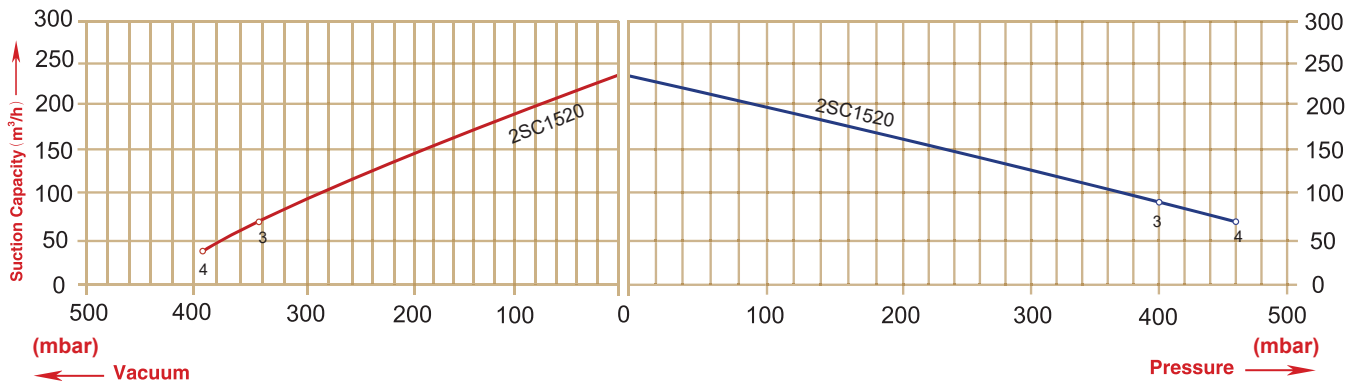
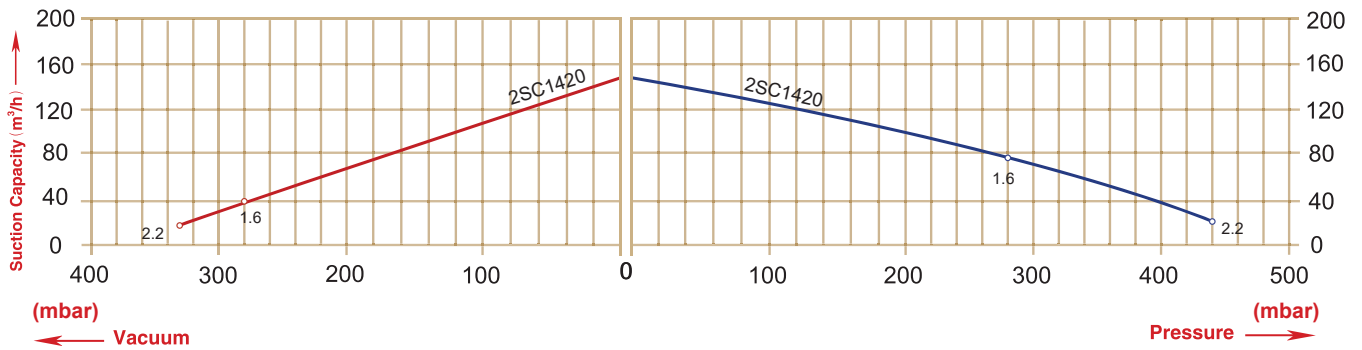
Blowers and Vacuum with 50 Hz - 60 Hz

MODEL	Frequency Hz	MOTOR			Weight approx. Kg	Sound pressure dB(A)	Maximum m³/h	Maximum vacuum mbar	Maximum pressure mbar
		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

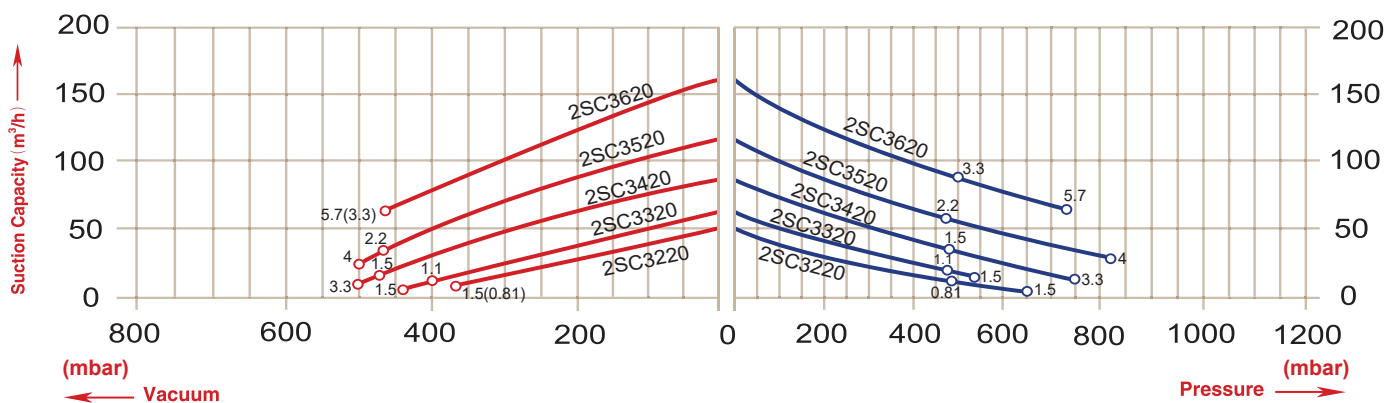
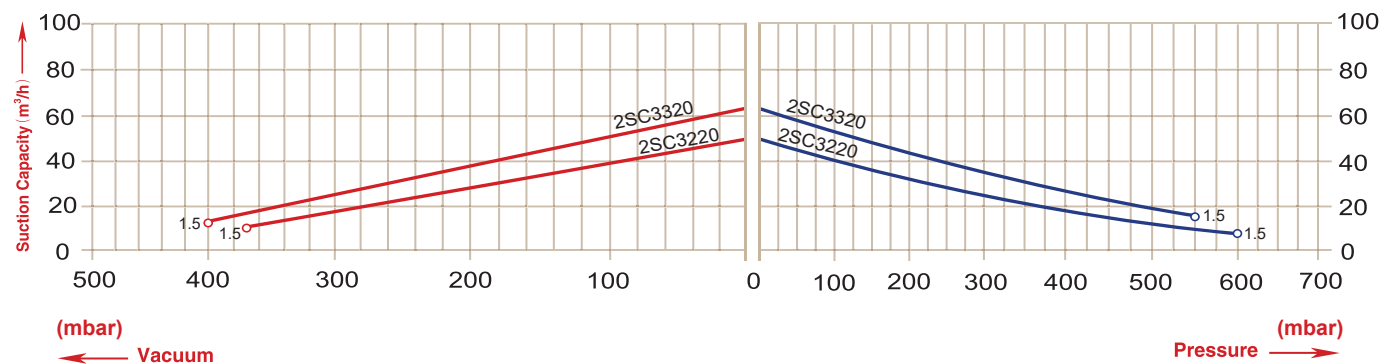
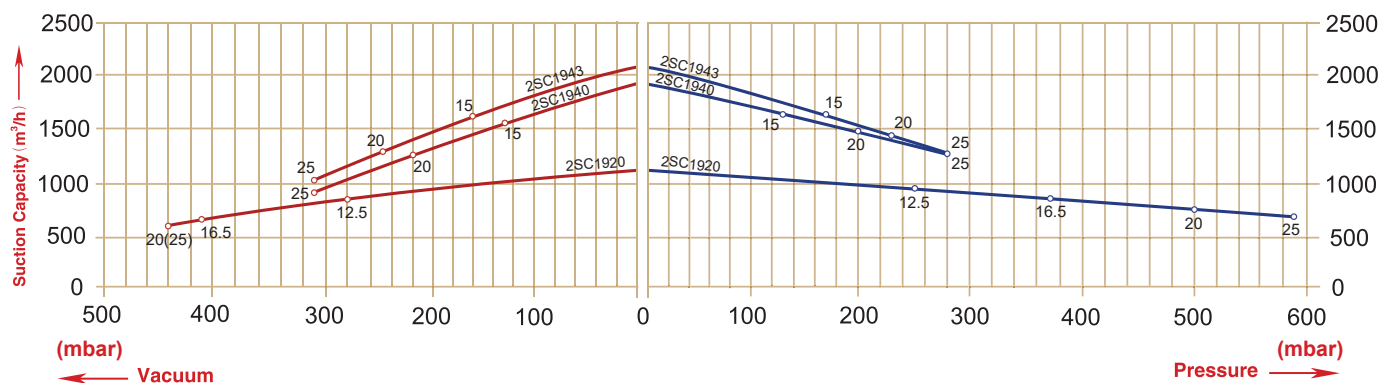
2SC Series



Vacuum selection diagram 50 Hz



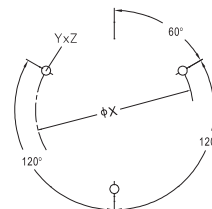
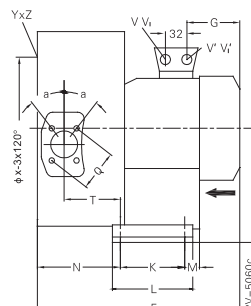
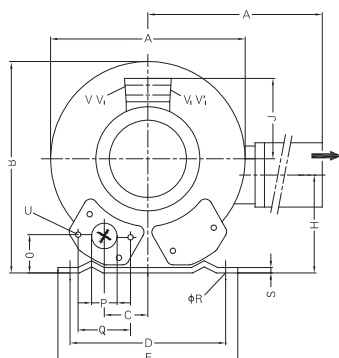
Vacuum selection diagram 50 Hz



2SC Series

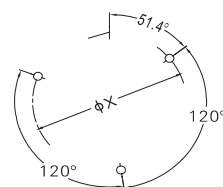
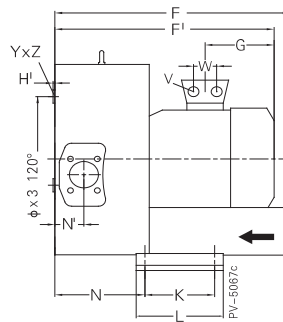
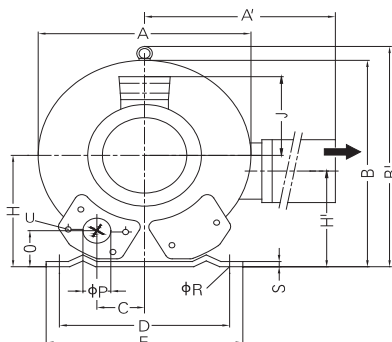


Dimension



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	YxZ	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 1/2	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 1/2	15	6	4×M32×1.5	286	M12×20	51.4°/120°/240°	42

Dimension



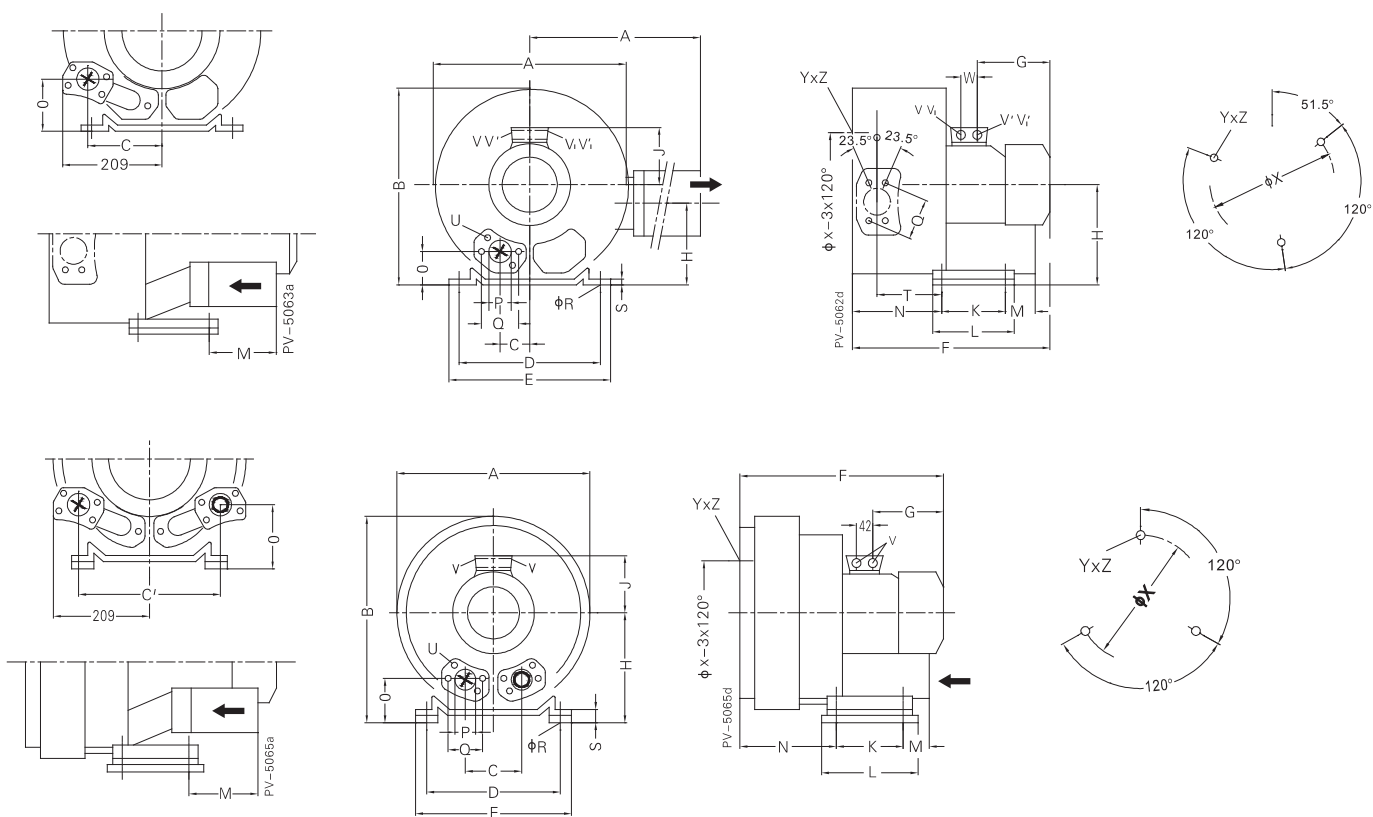
2SC1720



2SC1740, 2SC1840



2SC1420, 2SC1520

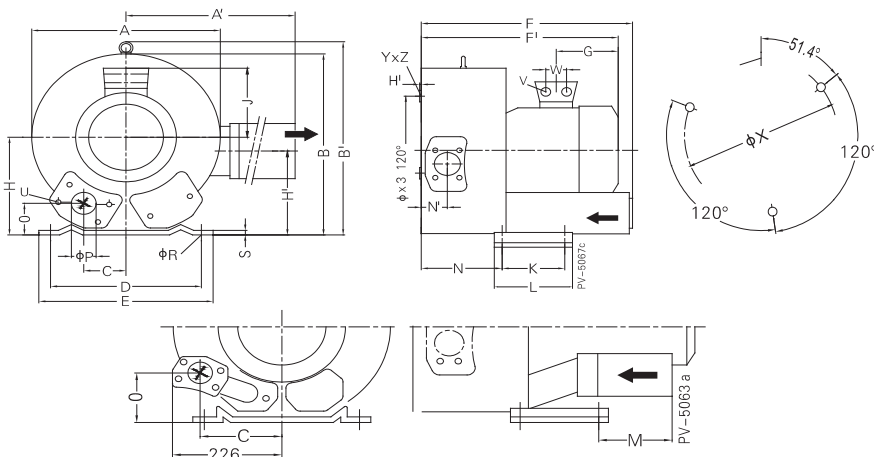


Type	Phases	A	A'	B	C	C'	D	E	F	G	H	H'	J	K	L	M	N	O	φP	Q	φR	S	T	U	V	V'	V1	V'1	φX	Y×Z	X-Holes	W
2SC1520-46	3~	372	411	371	60	—	260	295	465	190	175	144	135	115	115	98	171	48	55	83	14	4	116	M8×17	M32×1.5	M32×1.5	M32×1.5	M32×1.5	200	M8×20	51.5°/171.5°/291.5°	42
2SC1520-57	3~	372	411	371	60	—	260	295	499	224	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	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	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	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	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	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°	—

2SC Series

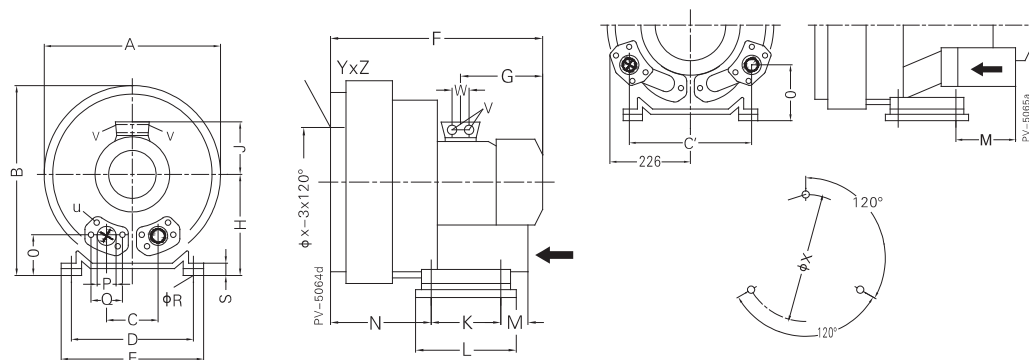


Dimension



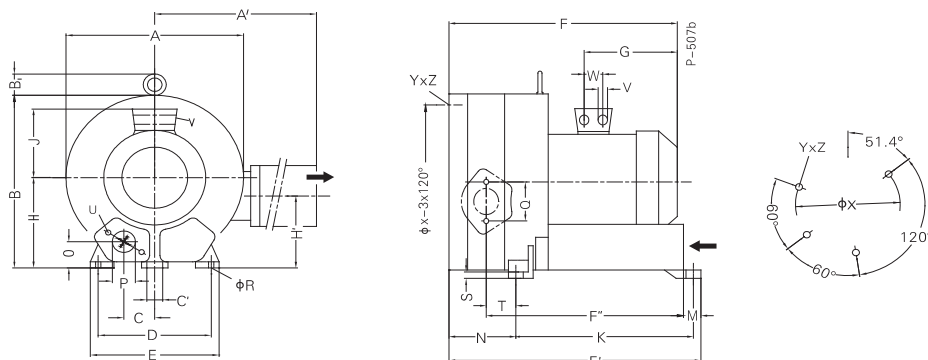
2SC1740, 2SC1840

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

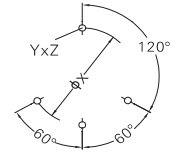
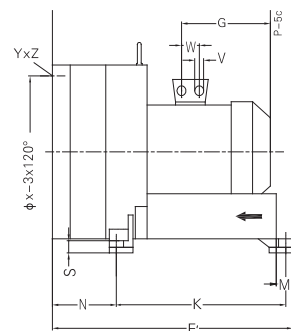
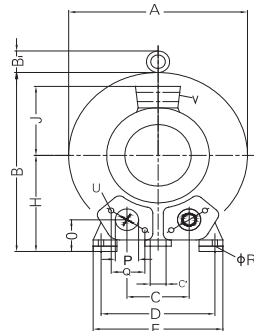
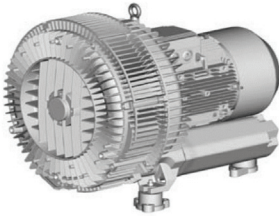
Type	Phases	A	B	C	C'	D	E	F	G	H	J	K	L	M	N	O	φP	φR	S	V	φX	YxZ	X-Holes	W
2SC1840-27	3~	500	550	152	—	356	394	589	226	300	167	170	217	140	236	125	65	15	66	4×M32×1.5	286	M12×20	0°/120°/240°	42
2SC1840-37	3~	500	550	—	336	356	394	694	318	300	197	170	217	312	212	165	65	15	66	4×M40×1.5	286	M12×20	0°/120°/240°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



2SC1820, 2SC1920

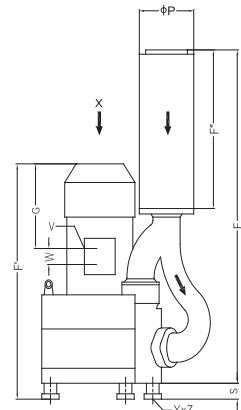
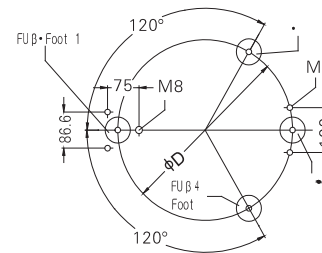
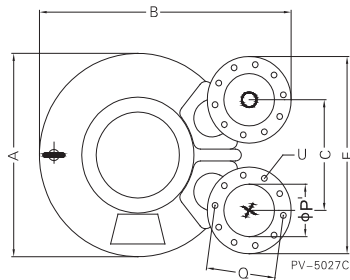
Type	Phases	A	A'	B	C	C'	D	E	F	F'	F''	G	H	H'	J	K	M	N	O	φP	Q	φR	S	T	U	V	φX	YxZ	X-Holes	W
2SC1920-17	3~	615	780	55	103.5	15	360	415	752	786	634	345	300	236	197	533	39	230	92	100	150	15	21	117	M12×30	4×M40×1.5	490	M12×30	51°/120°/240°	54
2SC1920-27	3~	615	780	55	103.5	15	360	415	752	786	634	345	300	236	197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

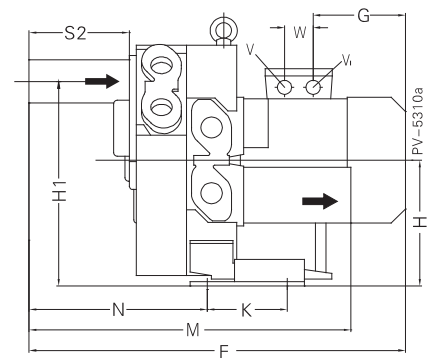
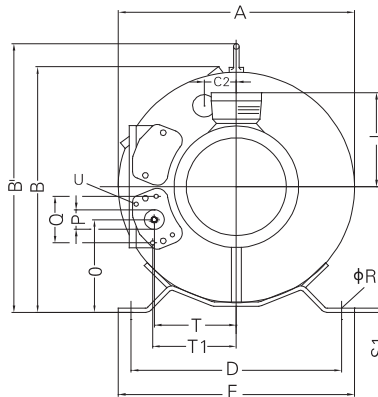
Type	Phases	A	B	C	D	E	F	F'	G	P	P'	Q	S	U	V	Y×Z	W
2SC1943-27	3~	615	723	307	490	526	1201	848	291	219	135	201	58	M8×40	4×M40×1.5	M12×10.5	54
2SC1943-37	3~	615	723	307	490	526	1201	848	291	219	135	201	58	M8×40	4×M40×1.5	M12×10.5	54
2SC1943-47	3~	615	723	307	490	526	1201	848	291	219	135	201	58	M8×40	4×M40×1.5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



2SC3220



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

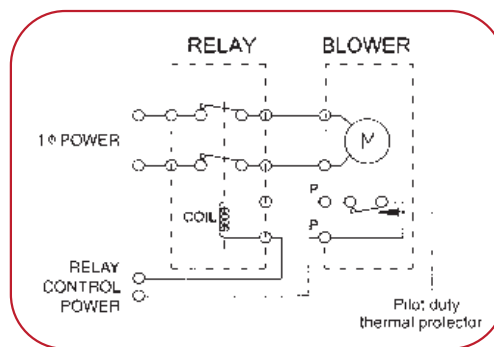
Thermal Protection

The following conditions must be considered.

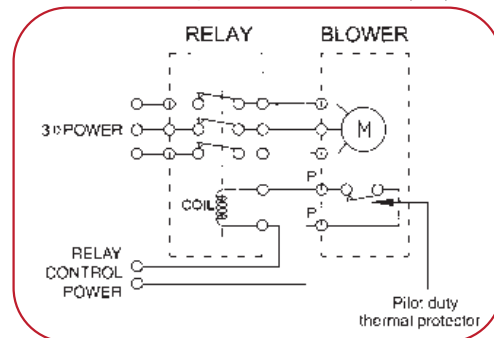
Pilot duty thermal protection :

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

Recommended protector connection (1 $\emptyset$)



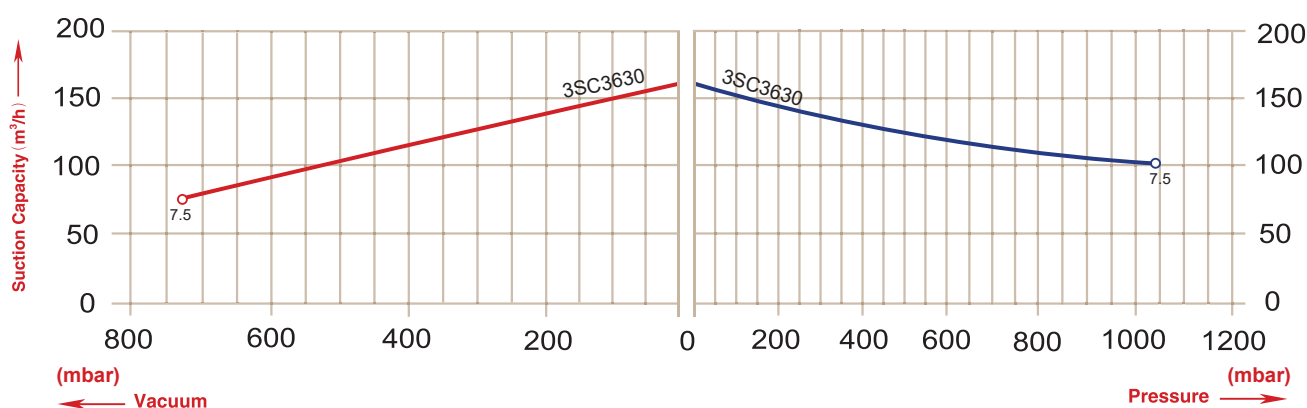
Recommended protector connection (3 $\emptyset$)



Blowers and Vacuum with 50 Hz - 60 Hz

MODEL	Frequency Hz	MOTOR			Weight approx. Kg	Sound pressure dB(A)	Maximum m³/h	Maximum vacuum mbar	Maxim press mb
		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

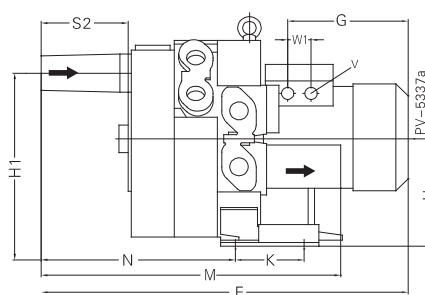
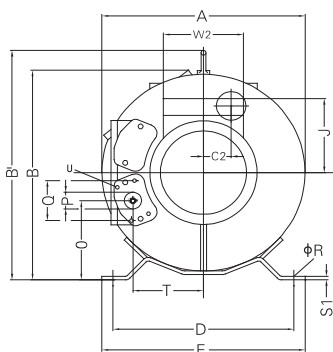
Vacuum selection diagram 50 Hz



Dimension

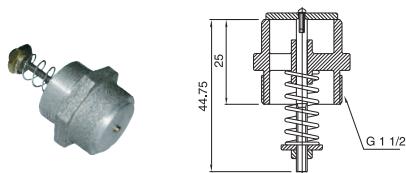


3SC3630-678



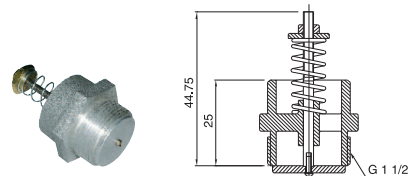
Type	Phases	A	B	B'	C2	D	E	F	G	H	H1		K	M	N	O	P	Q	φR	S1	S2	T	U	V	W1	W2
3SC3630-678	3~	442	402	492	63	371	406	717	274	236	389	—	152	539	336	172	G11/4(18deep)	64	14	5	146	153	M6×17	M32×1.5	42	120

Optional Accessories



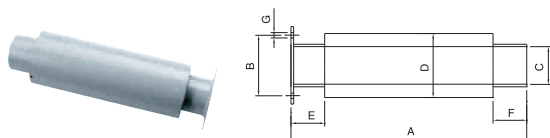
Pressure relief valve for blowers

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



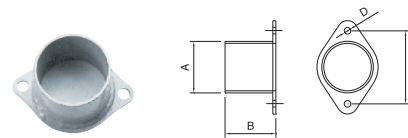
Vacuum relief valve for suction

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



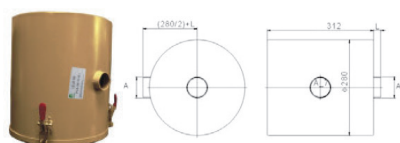
Additional silencer

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



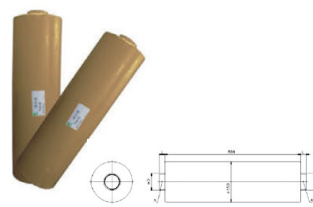
Hose Flange

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



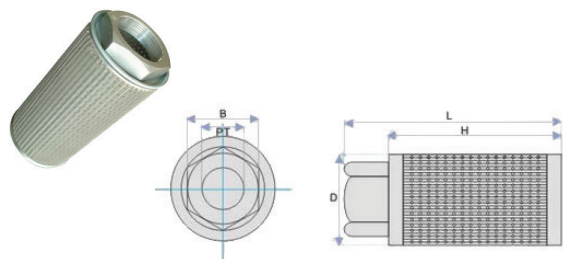
Filtering barrels

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



Muffler

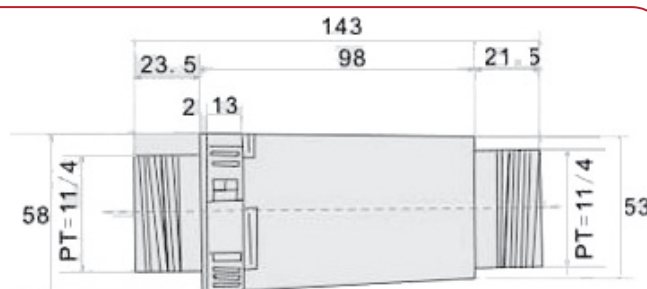
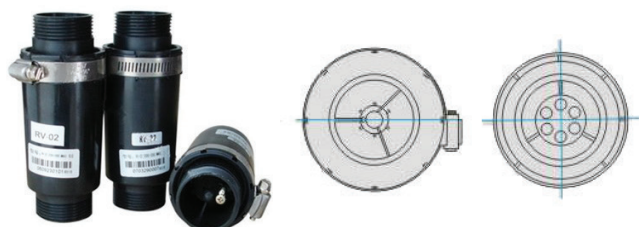
A	D(mm)	L(mm)
G2 1/2'	78	24
G2'	62	21
G1 1/2'	48	19
G1 1/4'	40	17



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	1 1/4	71	186	170	54	100	210	0.35
MF-12	1 1/2	85	196	182	65	100	285	0.49
MF-16	2	103	215	202	75	100	395	0.65
MF-20	2 1/2	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

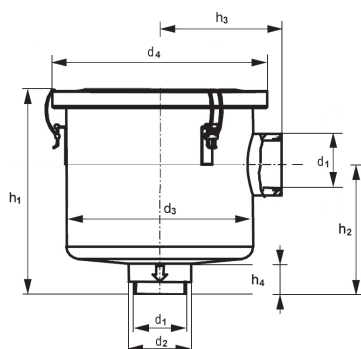
FEATURES & SPECIFICATIONS

- ♦ 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°C) max 220°F (104°C)
- ♦ Filter change out differential: 10" - 15" H₂O 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

