

APPLICATION

Side-channel blowers are used in pneumatic transport. Typical applications:

- pneumatic transport,
- graphic machines, pneumatic lifts, multi-stage filtration devices with a very high degree of dust separation,
- industrial vacuum cleaners, pools, aeration in biological sewage treatment plants, electroplating plants, etc.,
- for oil-free transport of non-aggressive and non-explosive gases.

CONSTRUCTION

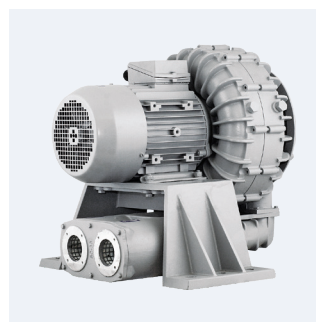
- side-channel blower with direct drive,
- the impeller is made of aluminum alloy, dynamically balanced according to ISO 1940-1,
- the housing is cast in aluminum alloy,
- blower adapted to work in horizontal or vertical position,
- standard color of the blower is gray RAL 7042,
- maximum temperature of the transported medium is 60°C,
- ambient temperature range from -20°C to +40°C.

MOTOR

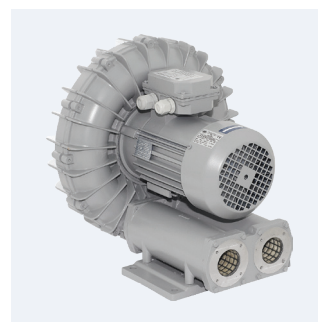
- asynchronous single-phase 230V 50Hz (power to 2,2 kW),
- asynchronous, three-phase 230V / 400V 50Hz (power to 3 kW),
- asynchronous, three-phase 400V / 690V 50Hz (power from 4 kW),
- efficiency class IE3 (from 0,75 kW) or IE2 (below 0,75 kW), degree of protection IP55,
- insulation class F,
- three-phase motors are adopted for frequency converter,
- thermal protection (TP or TP and PTC) - in selected motors.

SPECIAL EXECUTIONS

- motor with voltage and frequency of power different than standard,
- single-phase motor adopted to voltage regulation,
- motor with other than standard degree of protection,
- motor equipped with sensors or additional cooling,
- sealing between the housing and the motor,
- maximum temperature of the transported medium above 60°C,
- ambient temperature range below -20°C and above +40°C,
- belt drive.



Two-stage version
DSC/PSC



100 Hz motor version
SC-F



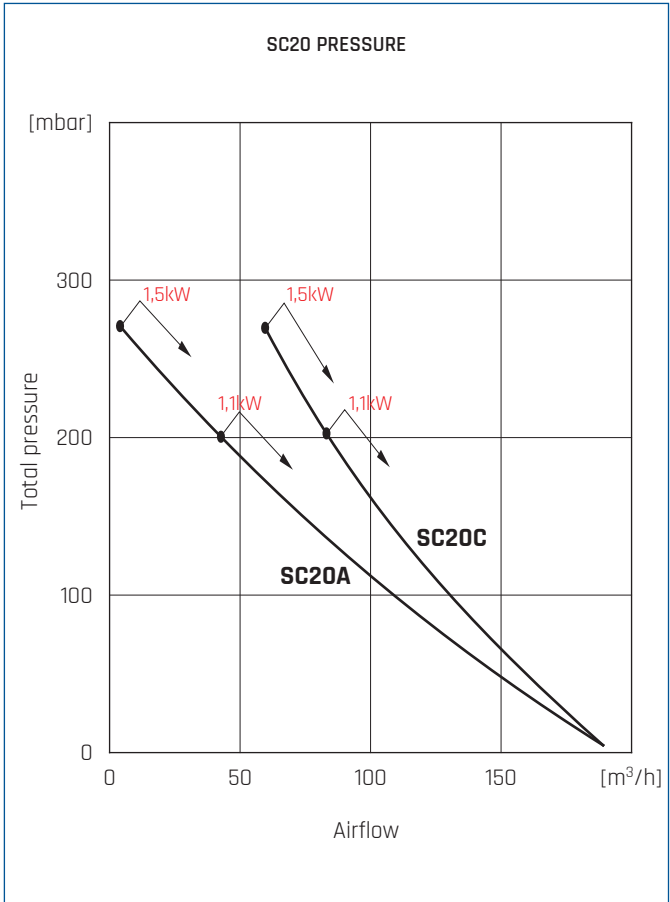
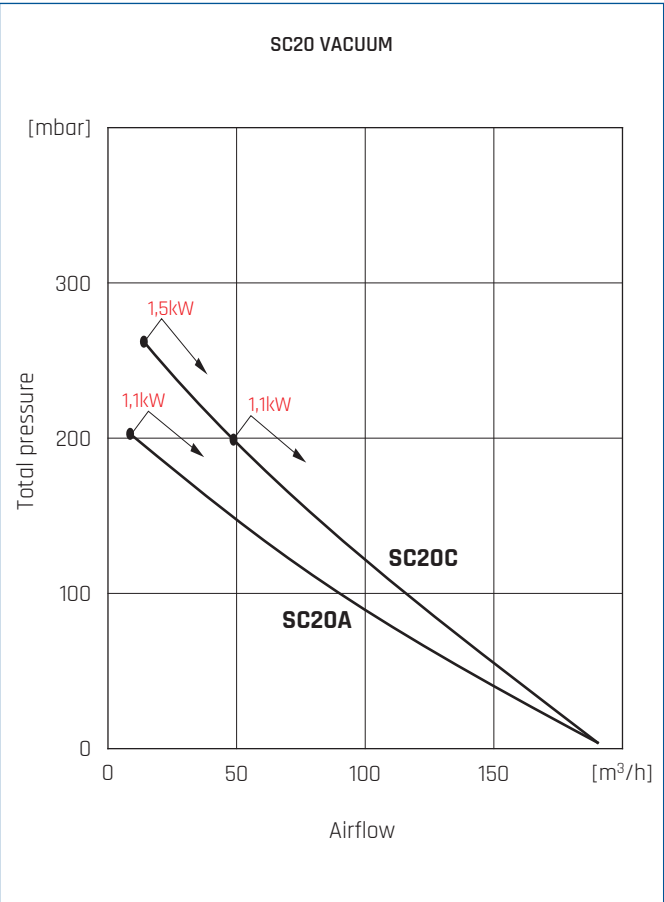
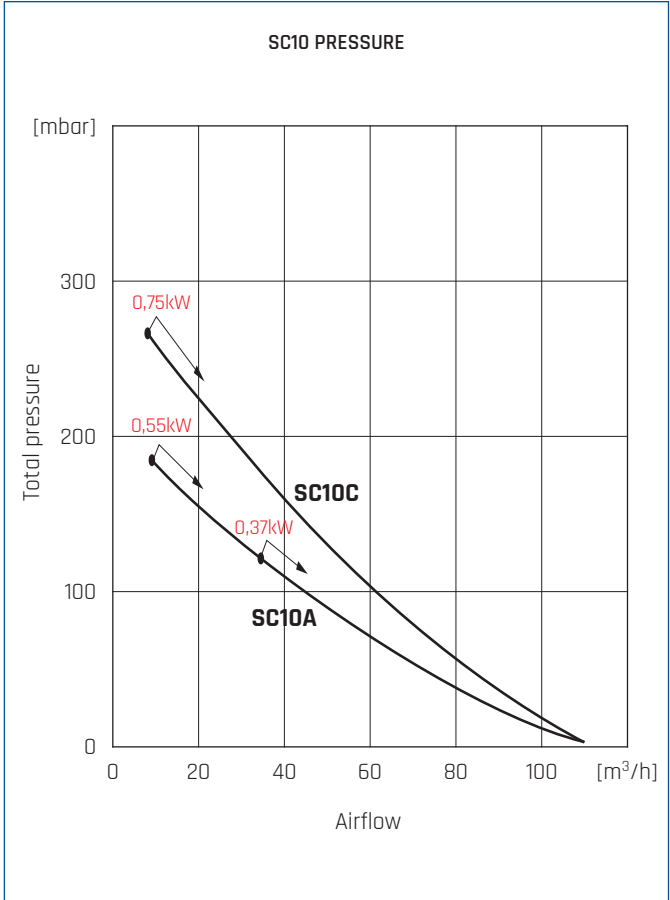
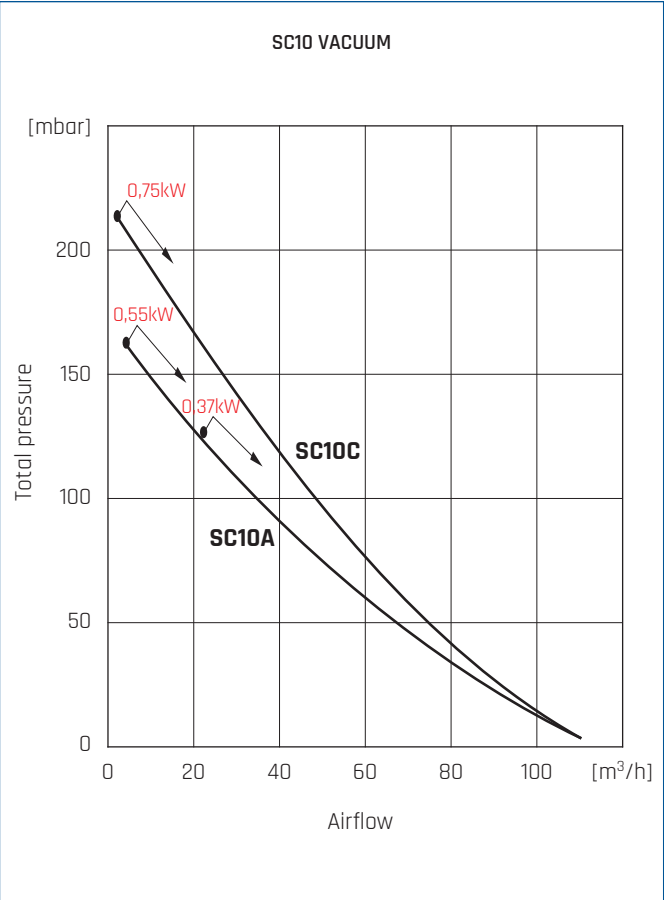
Version with belt drive
SC-VB

TECHNICAL CHARACTERISTICS

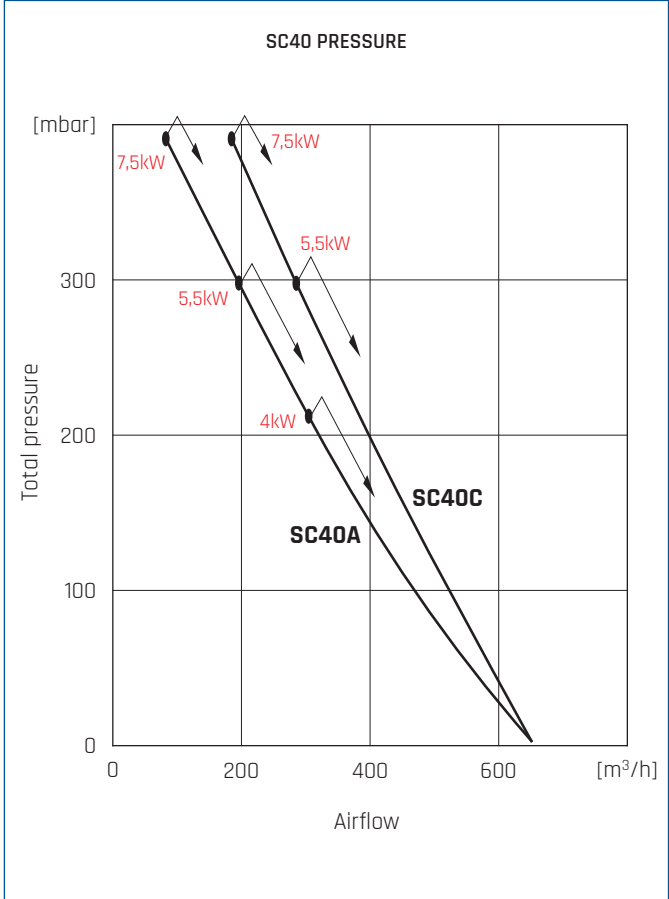
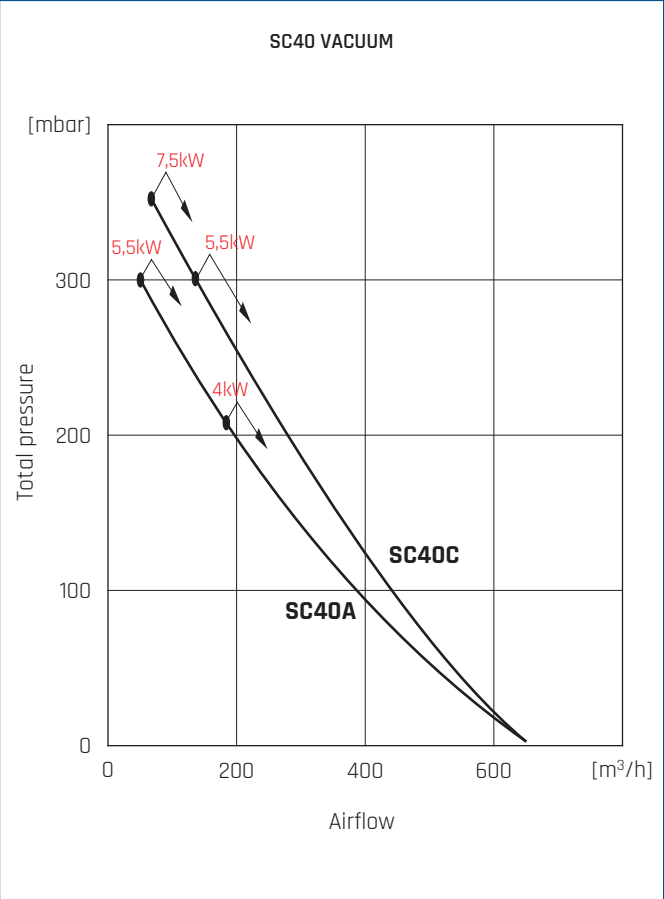
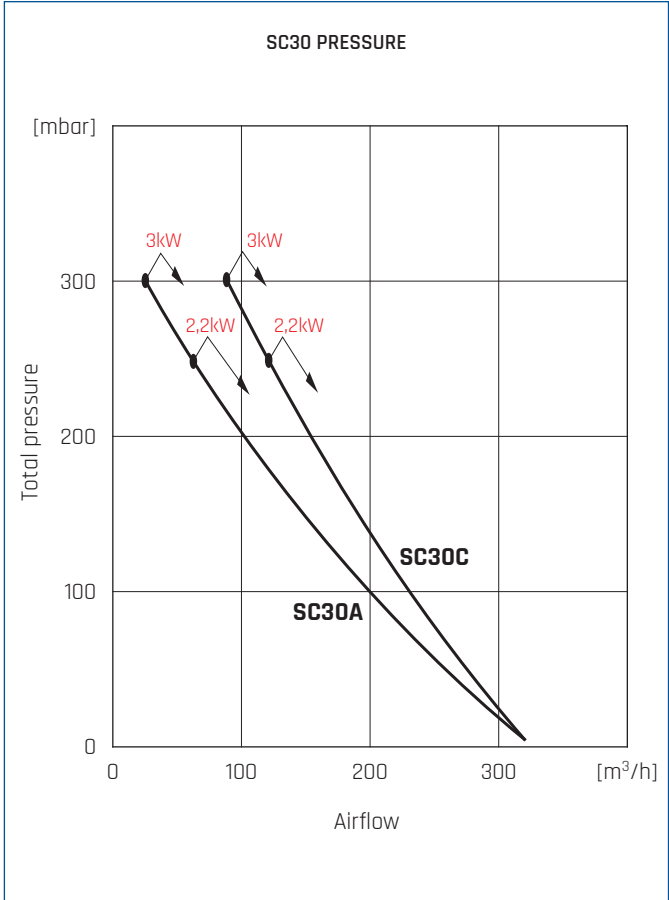
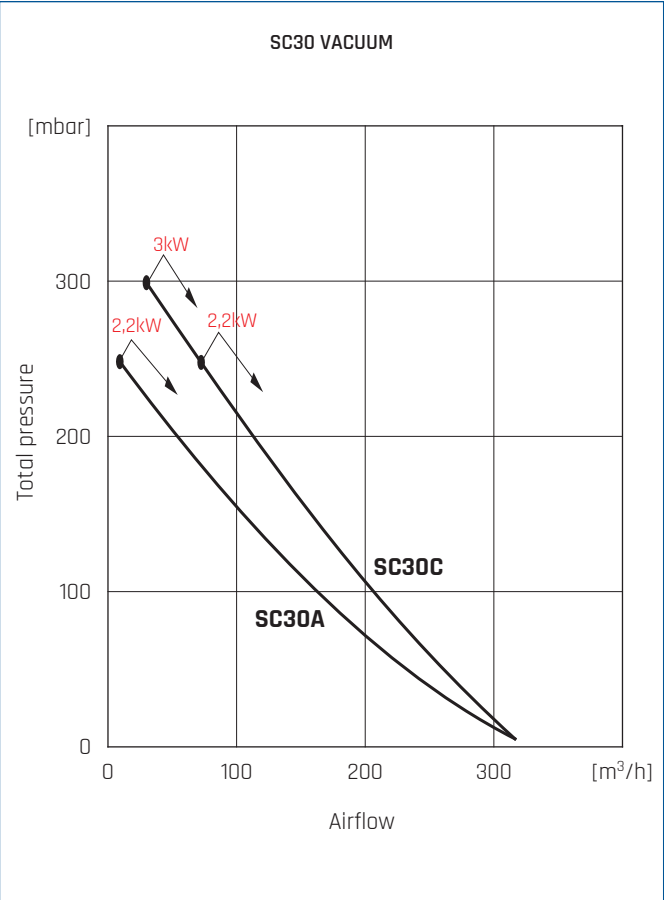
Type	airflow max	pressure max vacuum pressure		maximum absorbed power	speed	maximum absorbed current	voltage	capacitor	sound pressure level*	weight	article number
	[m³/h]	[mbar]		[kW]	[r.p.m.]	[A]	[V]	[µF]	[dB(A)]	[kg]	
THREE-PHASE											
SC10A 037T	110	126	125	0,37	2800	1,75/1	230Δ/400Y	-	71	15	46511010
SC10A 055T	110	175	185	0,55	2790	2,35/1,35	230Δ/400Y	-	72	16	46511030
SC10C 075T	110	225	270	0,75	2890	2,95/1,7	230Δ/400Y	-	73	18,5	436511050
SC20A 110T	190	202	200	1,1	2890	4,3/2,5	230Δ/400Y	-	75	22	436511070
SC20A 150T	190	202	275	1,5	2880	5,25/3,0	230Δ/400Y	-	75	24,5	436511100
SC20C 110T	190	200	200	1,1	2890	4,3/2,5	230Δ/400Y	-	77	22	436511090
SC20C 150T	190	270	275	1,5	2880	5,25/3,0	230Δ/400Y	-	75	24,5	436511110
SC30A 220T	320	250	250	2,2	2895	7,9/4,6	230Δ/400Y	-	77	36	436511130
SC30A 300T	320	250	300	3	2870	11,0/6,3	230Δ/400Y	-	78	40	436511155
SC30C 220T	320	250	250	2,2	2895	7,9/4,6	230Δ/400Y	-	80	36	436511160
SC30C 300T	320	300	300	3	2870	11,0/6,3	230Δ/400Y	-	78	40	436511170
SC40A 400T	650	210	220	4	2895	7,3/4,2	400Δ/690Y	-	81	67	436511180
SC40A 550T	650	300	300	5,5	2890	9,8/5,7	400Δ/690Y	-	82	70	436511190
SC40A 750T	650	300	395	7,5	2885	14,0/8,1	400Δ/690Y	-	84	73	436511200
SC40C 550T	650	300	300	5,5	2890	9,8/5,7	400Δ/690Y	-	84	70	436511220
SC40C 750T	650	350	395	7,5	2885	14,0/8,1	400Δ/690Y	-	86	73	436511230
SC46A 750T	750	200	200	7,5	2885	14,0/8,1	400Δ/690Y	-	82	105	436511240
SC46A 1100T	750	350	420	11	2900	19,1/11,1	400Δ/690Y	-	84	120	436511242
SC46C 750T	800	200	200	7,5	2885	14,0/8,1	400Δ/690Y	-	84	105	436511244
SC46C 1100T	800	360	420	11	2900	19,1/11,1	400Δ/690Y	-	86	120	436511246
SC50A 750T	1100	175	175	7,5	2885	14,0/8,1	400Δ/690Y	-	82	126	436511250
SC50A 1100T	1100	325	320	11	2900	19,1/11,1	400Δ/690Y	-	84	128	436511260
SC50A 1500T	1100	360	420	15	2940	26,6/15,4	400Δ/690Y	-	88	155	436511270
SC50C 750T	1100	180	175	7,5	2885	14,0/8,1	400Δ/690Y	-	84	126	436511280
SC50C 1100T	1100	325	325	11	2900	19,1/11,1	400Δ/690Y	-	86	128	436511290
SC50C 1500T	1100	375	420	15	2940	26,6/15,4	400Δ/690Y	-	88	155	436511300
SINGLE-PHASE											
SC10A 037S	110	126	125	0,37	2760	3	230	12	70	18	46511020
SC10A 055S	110	175	185	0,55	2780	3,6	230	20	72	19	46511040
SC10C 075S	110	225	270	0,75	2800	5	230	25	73	21,5	46511060
SC20A 110S	190	202	200	1,1	2800	7,2	230	30	75	25	46511080
SC20A 150S	190	202	275	1,5	2740	9,1	230	40	77	26	46511115
SC20C 110S	190	200	200	1,1	2800	7,2	230	30	75	25	46511095
SC20C 150S	190	270	275	1,5	2740	9,1	230	40	77	26	46511120
SC30A 220S	320	250	250	2,2	2800	14	230	-	78	43	46511135

* with silencer

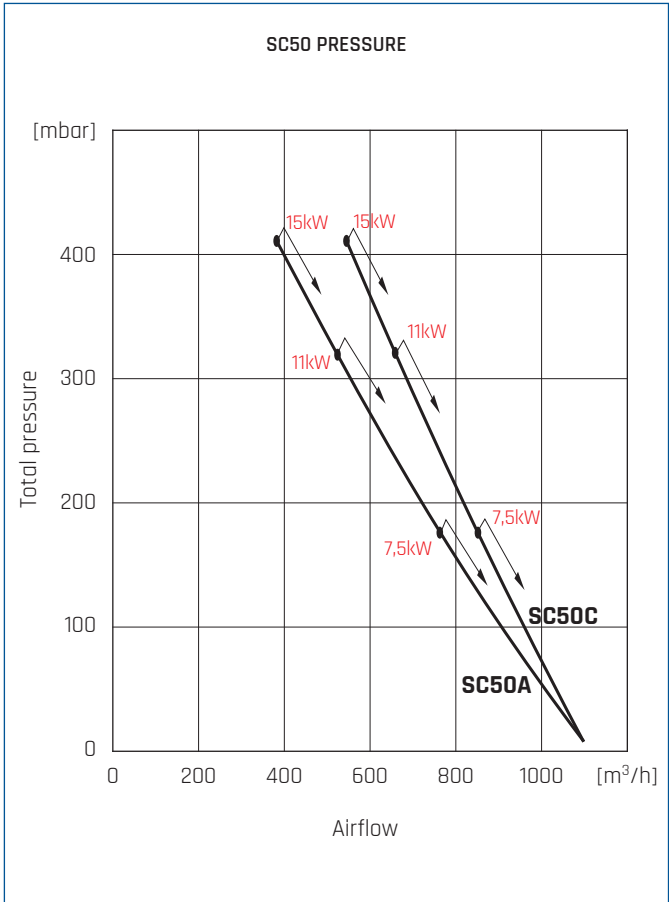
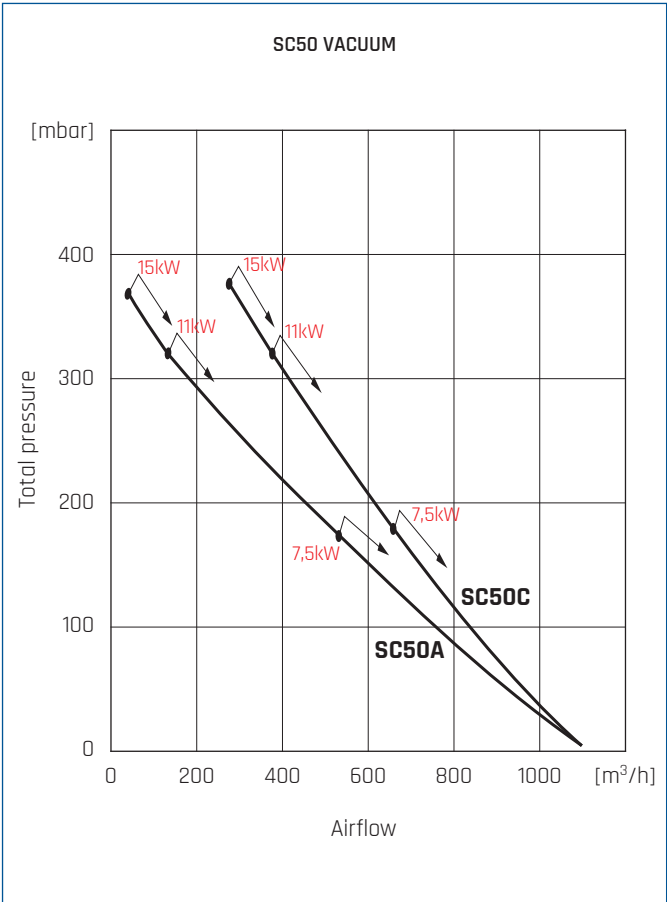
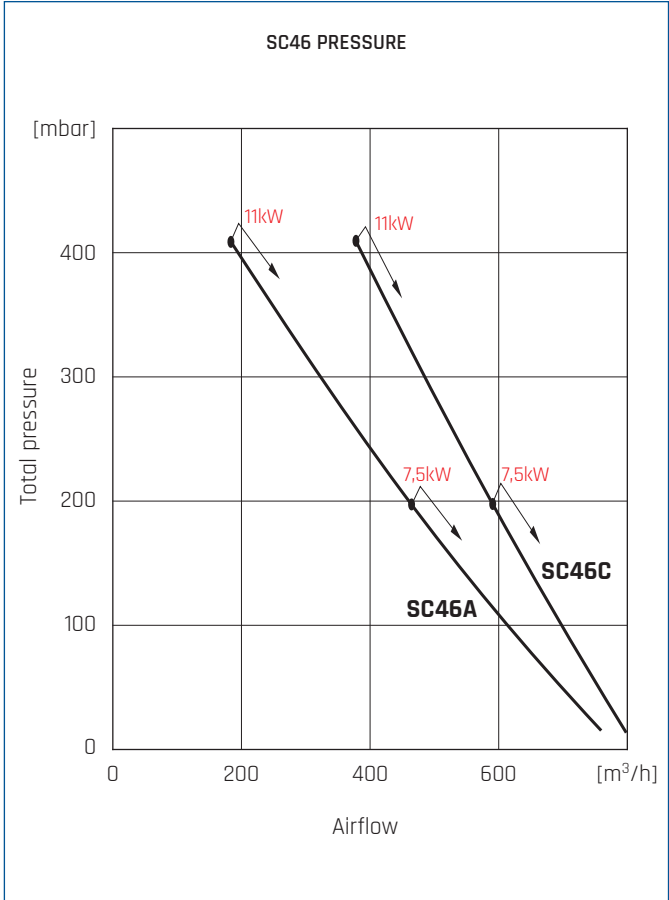
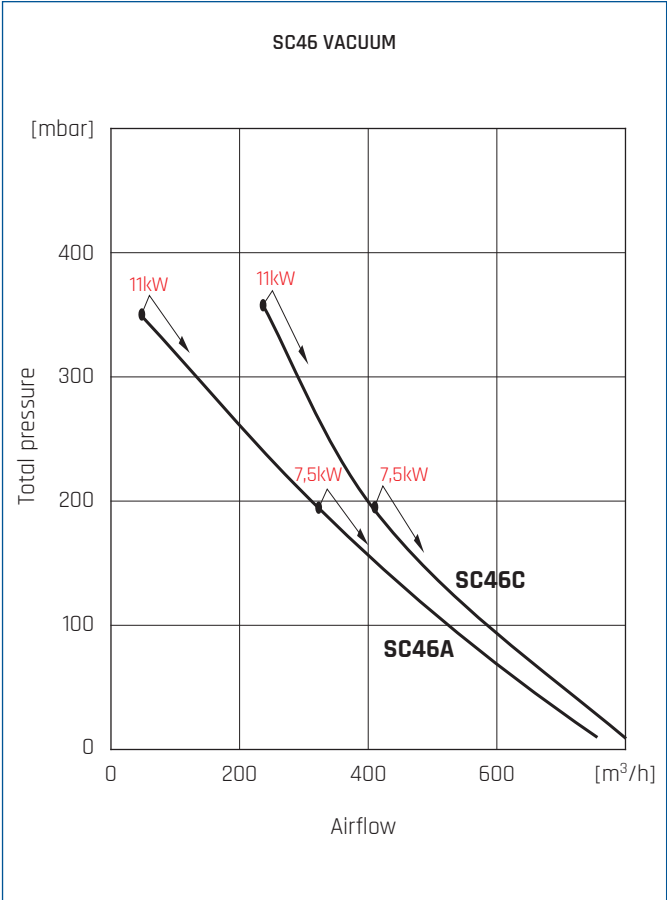
PERFORMANCE CURVES



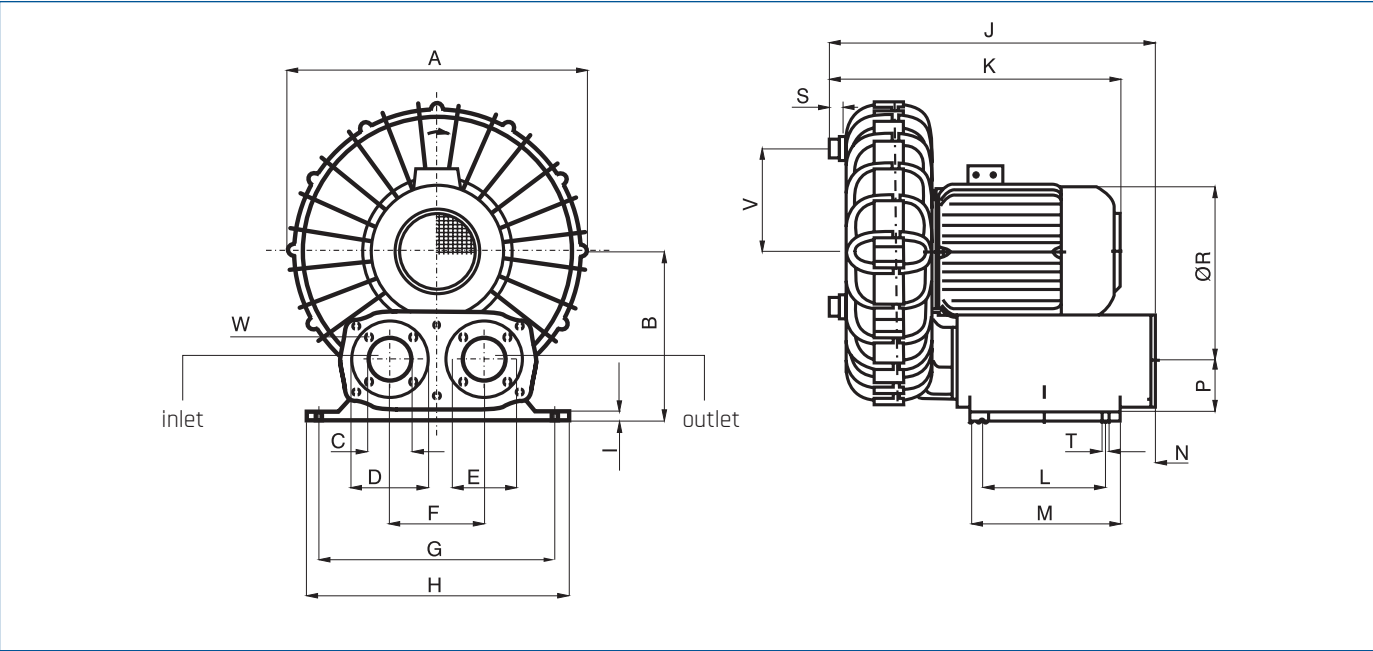
PERFORMANCE CURVES



PERFORMANCE CURVES



DIMENSIONS [mm]



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	ØR	S	T	W	V
SC10	296	170	45	80	68	90	220	250	12	340	311	120	150	66	60	141	15	11	M5	117
SC20	360	200	45	80	68	90	220	250	12	370	390	120	150	66	60	157	15	11	M5	129,5
SC30	395	225	55	100	85	125	310	350	12	425	410	160	200	72	80	175	20	13	M6	140
SC40	480	275	75	130	110	145	365	420	12	535	520	260	300	34	80	230	30	14	M8	172
SC46	540	303	100	150	130	160	400	450	20	660	600	370	430	50	-	-	30	20	M8	-
SC50	580	335	100	150	130	160	400	450	25	685	650	370	430	50	95	258	30	20	M8	202