



## 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, three-phase 400V, 50Hz (connection in  $\Delta$  for 87Hz-87Hz technique),
- efficiency class IE3 (from 0,75 kW) or IE2 (below 0,75 kW),
- degree of protection IP55,
- insulation class F,
- thermal protection (TP or TP and PTC) - in selected motors,
- external cooling 230V, 50Hz / 24V DC (option).

## FREQUENCY CONVERTER

Integrated with the electric motor, factory configuration in 87Hz technique.

Standard equipment:

- Analog input (0-10V / 0-20mA),
- Built-in or wired control panel (control and configuration).

Optional equipment:

- CANopen, EtherCAT, PROFINET, Sercos III, PROFIBUS communication cards,
- Safety implementation safety function + CANopen, safety + EtherCAT, safety + PROFINET, safety + Sercos, safety.

## SPECIAL EXECUTIONS

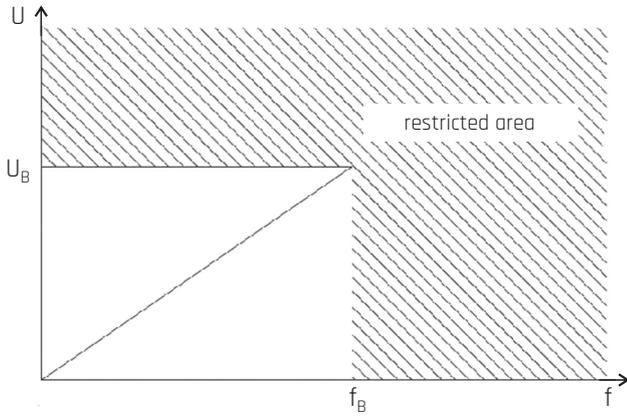
- motor with other than standard degree of protection,
- motor equipped with sensors or additional cooling,
- ambient temperature range below -20°C and above +40°C.

## TECHNICAL CHARACTERISTICS

Type	airflow max	pressure max		speed	voltage	current (87Hz $\Delta$ 400V)	motor power at 50Hz	motor power at 87Hz (87Hz technique)	inverter voltage	inverter power frequency	cooling motor voltage	weight	article number
	[m <sup>3</sup> /h]	suction	pressing										
SC-F-10-INT-190T	180	247	283	5050	400	5,25	1,5	2,6	400	50/60	230	27	46511617
SC-F-10-INT-260T	180	313	476	5050	400	7,9	2,2	3,8	400	50/60	230	29	46511619
SC-F-20-INT-380T	296	259	362	5050	400	7,9	2,2	3,8	400	50/60	230	39	46511634
SC-F-20-INT-520T	295	347	359	5030	400	11	3	5,2	400	50/60	230	45,7	46511643
SC-F-30-INT-950T	557	371	380	5020	400	17	5,5	9,5	400	50/60	230	63,7	46511653
SC-F-40-INT-1900T	1089	280	338	5010	400	33	11	19	400	50/60	230	176	46511668
SC-F-50-INT-2600T (70Hz)	1430	370	375	4050	400	46	15	26 (70Hz)	400	50/60	230	63,7	46511673

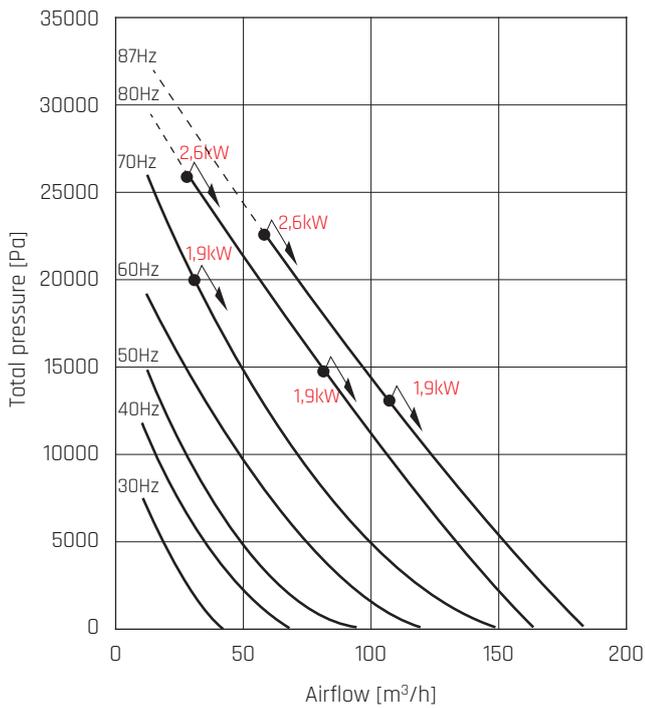
## PERFORMANCE CURVES

The converter supplying the motor must have the following  $U(f)$  classification:

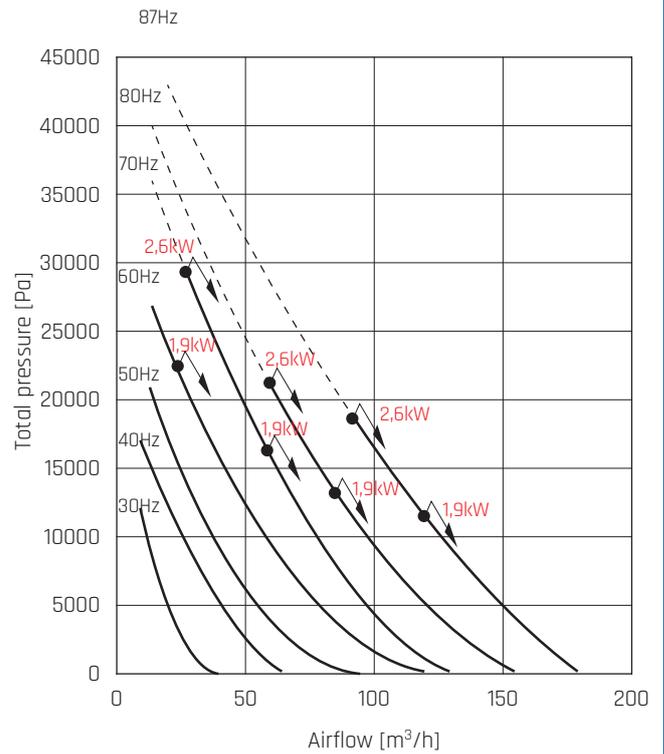


$U_B$  - 400V connection in  $\Delta$  for 87Hz (87Hz technique)  
 $f_B$  - frequency 87Hz

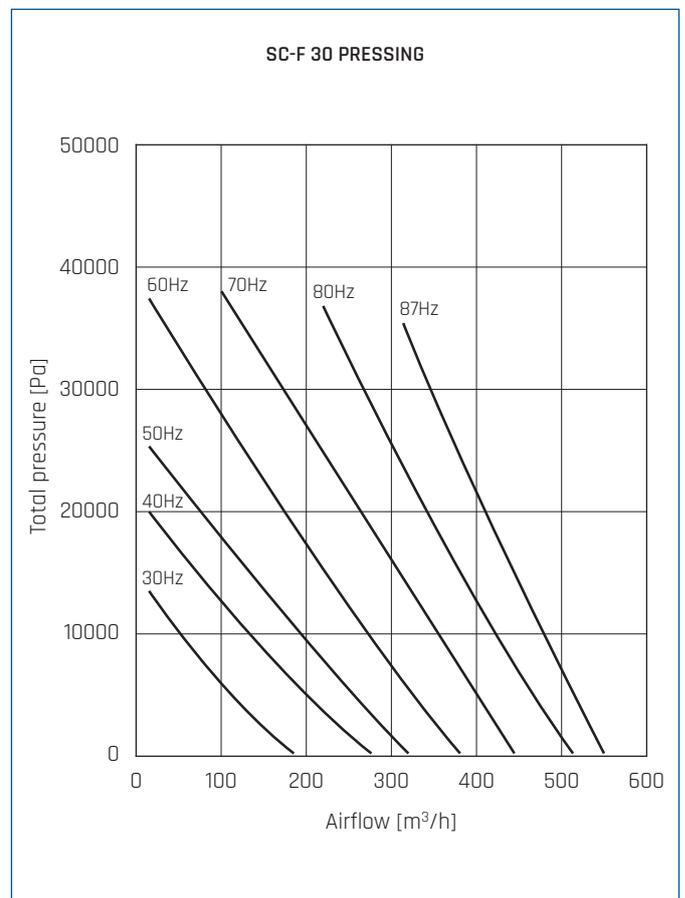
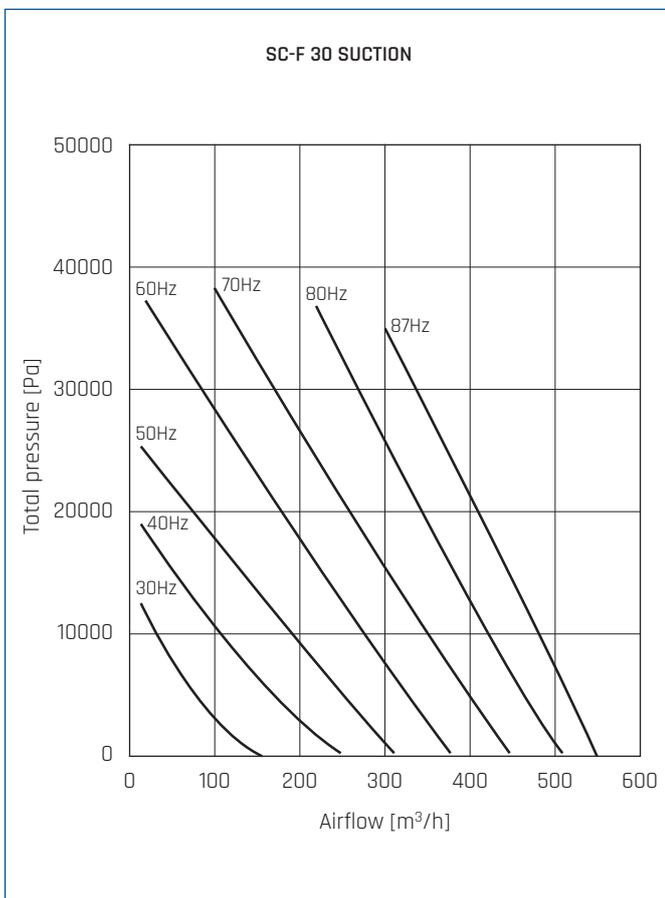
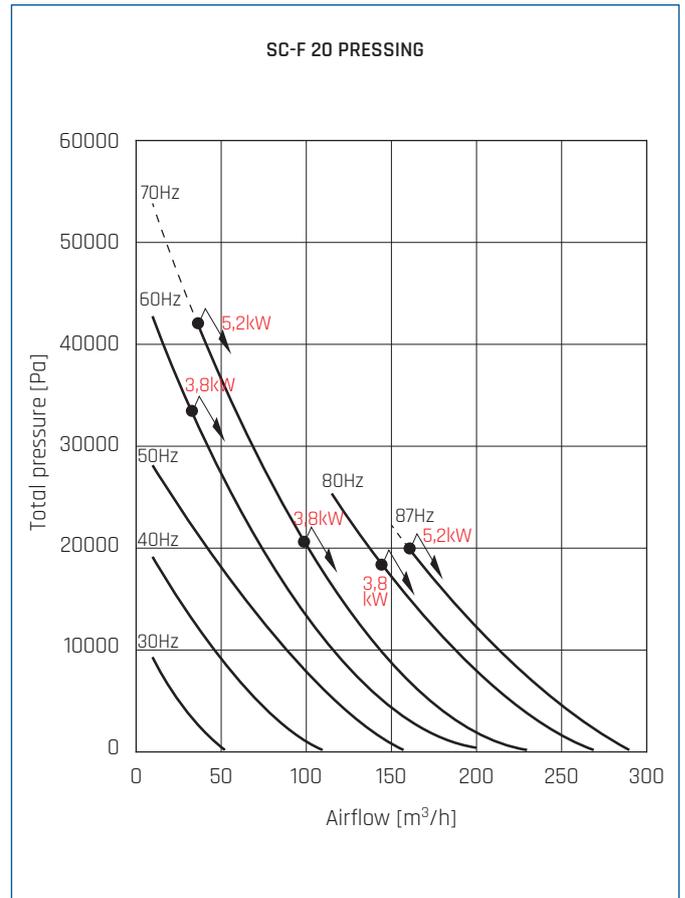
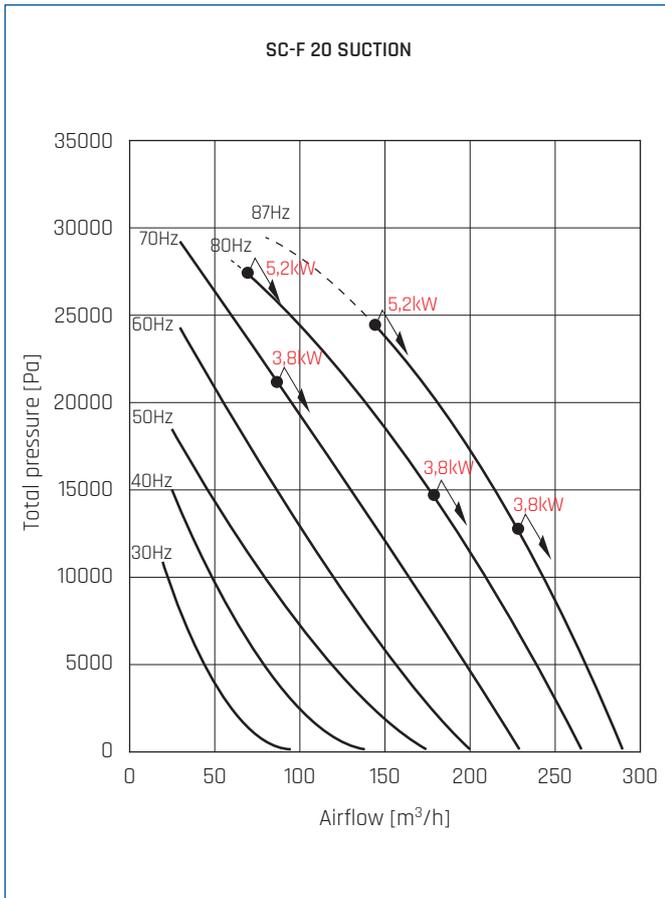
SC-F 10 SUCTION



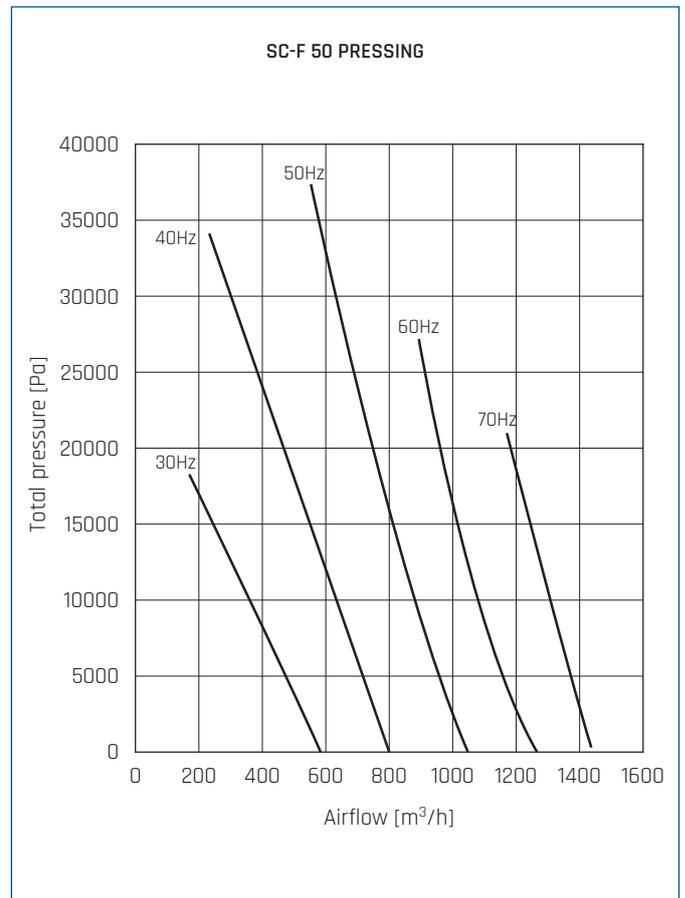
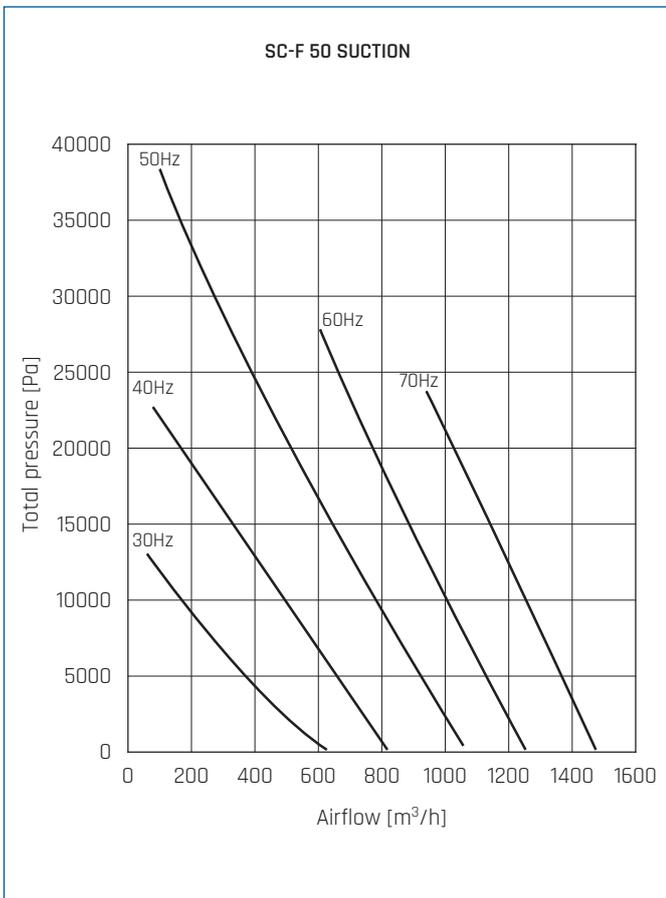
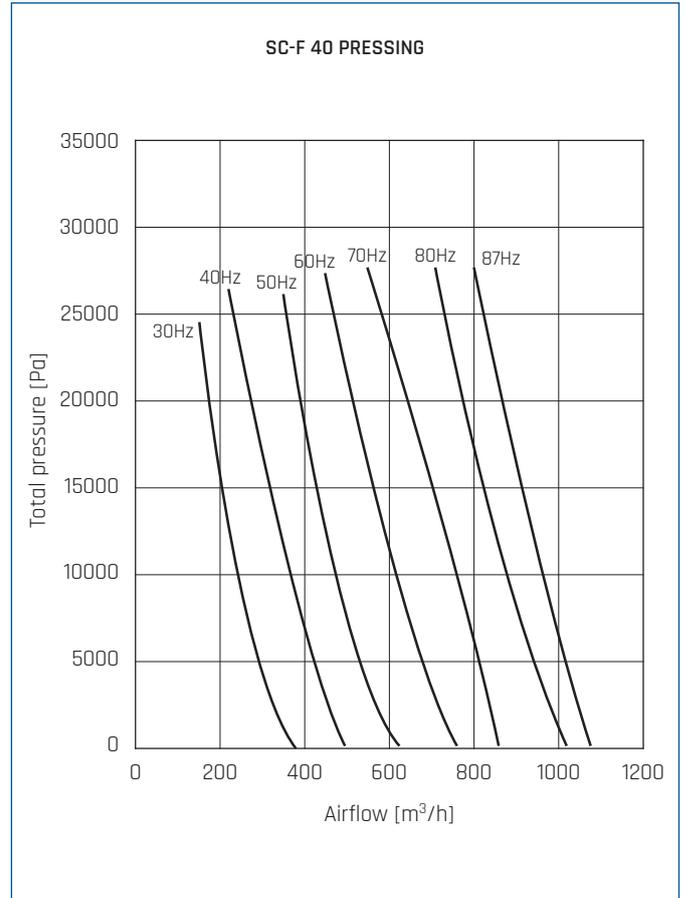
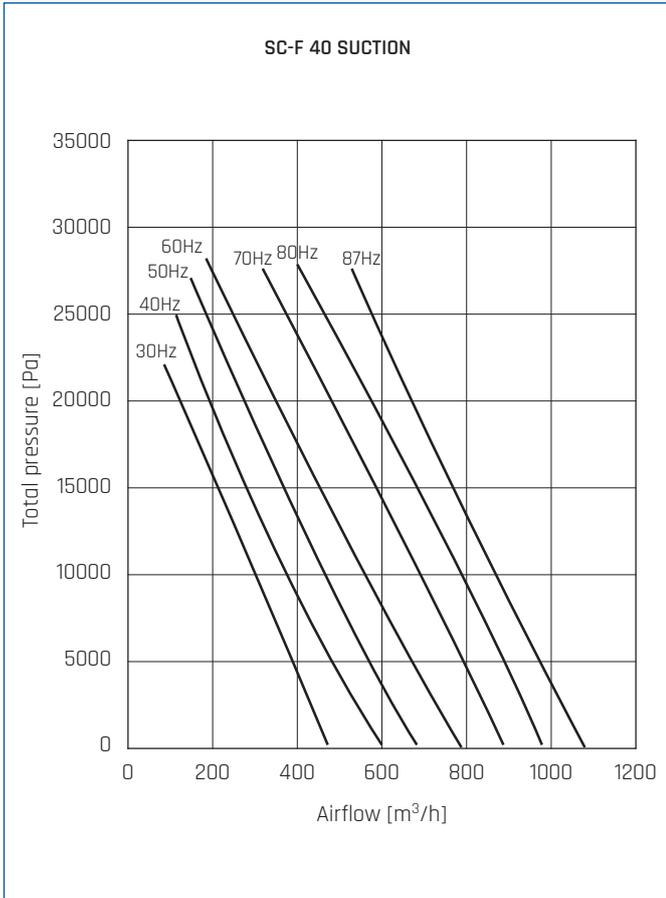
SC-F 10 PRESSING



## PERFORMANCE CURVES

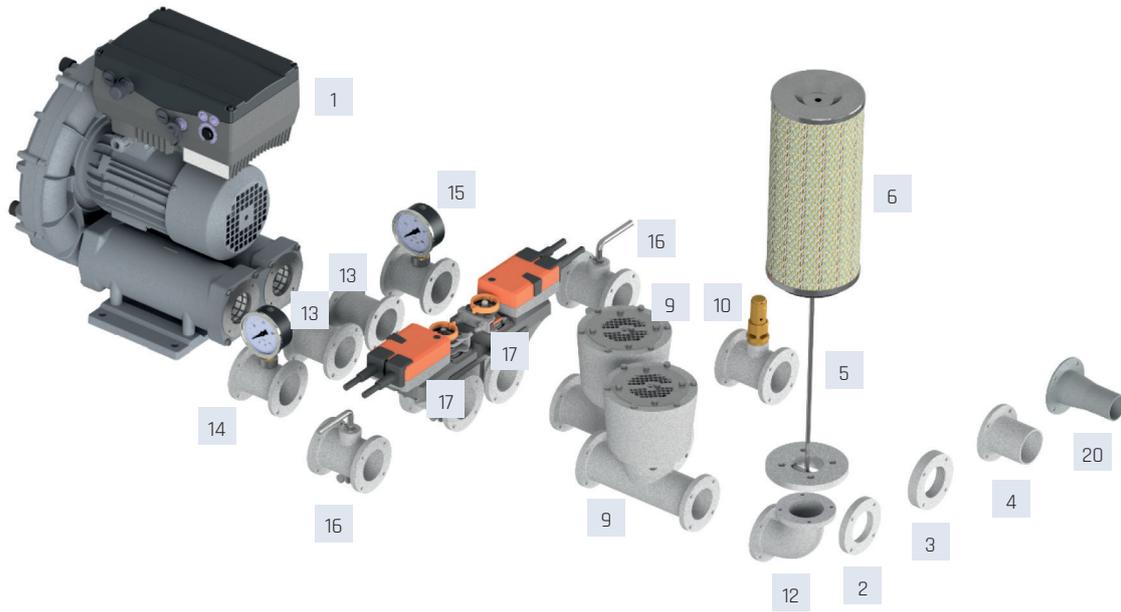


## PERFORMANCE CURVES

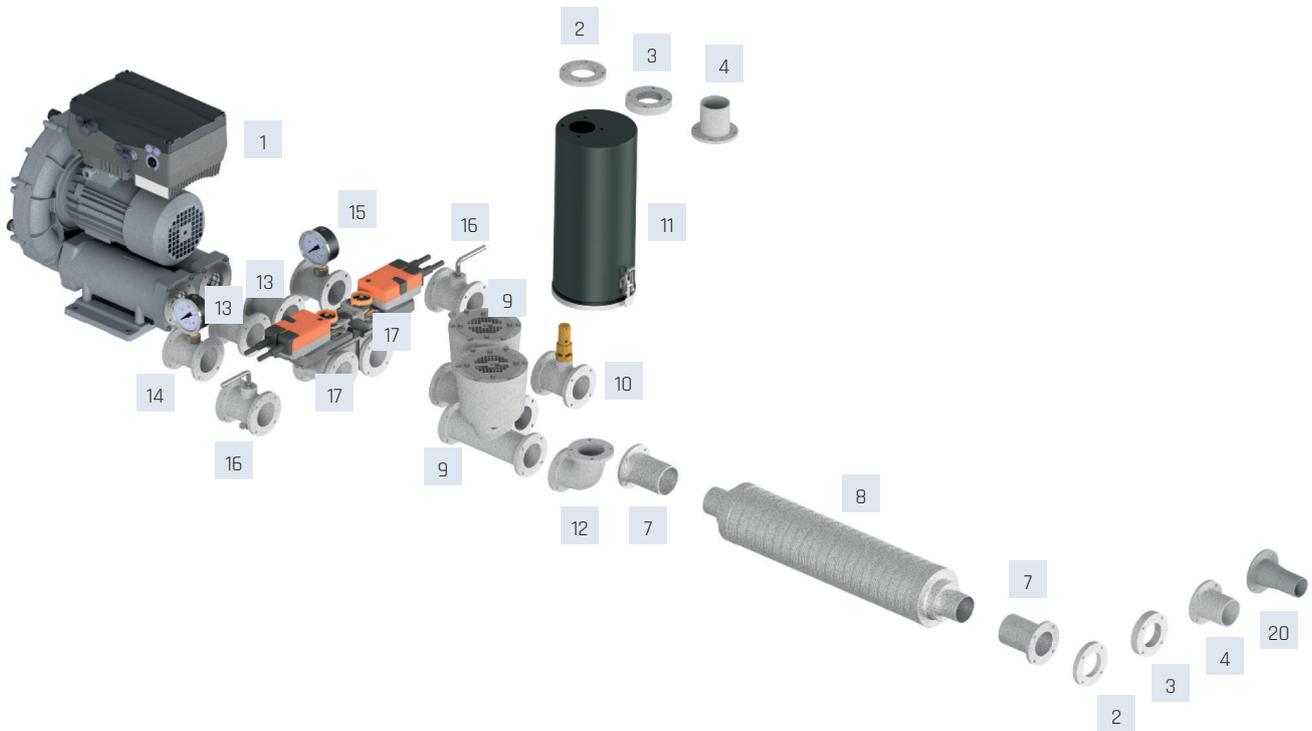


## MOUNTING ACCESSORIES

OPTION 1



OPTION 2



MOUNTING ACCESSORIES

OPTION 3



## MOUNTING ACCESORIES

1	2	3	4	5	6	7	8	9	10
Type	welding flange	threaded flange	suction connection	filter flange	filter	connection flange	silencer	overload valve	overpressure valve 0-200mbar 0-300mbar 0-400mbar
SC-F-INT-10	45516500	45516600	46515210	46515110	46515039	46515250	46525310	46515520	72000058 72000059 -
SC-F-INT-20	45516500	45516600	46515210	46515110	46515039	46515250	46525310	46515520	72000058 72000059 72000066
SC-F-INT-30	45516510	45516610	46515220	46515120	46515039	46515260	46525320	46515530	- 72000060 72000066
SC-F-INT-40	45516520	45516620	46515230	46515130	46515038	46515270	46525330	46515540	72000062 72000063 72000066
SC-F-INT-50	45516530	45516630	46515240	46515140	46515038	46515280	46525340	46515550	-

1	11	12	13	14	15	16	17	18	19	20
Type	channel filter	elbow	double flange connection	overpressure manometer	vacuum pressure manometer	manual throttle	automatic throttle	EPDM gasket	sound absorbing housing	reduction
SC-F-INT-10	46515070	25515285	46515160	46515460	46515461	46515162	46515163	91020025-10	70510321	46515290 D=100mm
SC-F-INT-20	46515070	25515285	46515160	46515460	46515461	46515162	46515163	91020025-10	70510321	46515290 D=100mm
SC-F-INT-30	46515075	25515286	46515170	46515470	46515471	46515172	46515173	91020025-11	70510322	46515291 D=130mm
SC-F-INT-40	46515080	25515287	46515180	46515480	46515481	46515182	46515183	91020025-12	70510323	46515292-01 D=60mm 46515292 D=150mm
SC-F-INT-50	46515085	25515288	46515190	46515490	46515491	46515192	46515193	91020025-13	-	-

