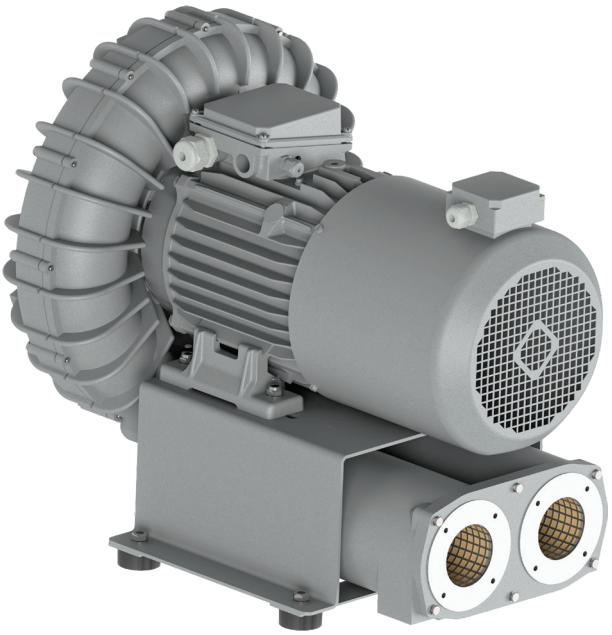
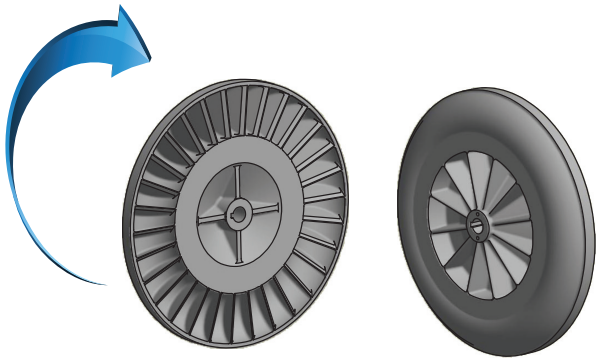




APPLICATION

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 100Hz (power up to 15 kW),
- degree of protection IP55,
- insulation class F,
- for use with frequency converter,
- thermal protection (TP or TP and PTC) - in selected motors,
- external cooling 230V 50Hz,
- **A frequency converter is required for the proper operation of the fan.**

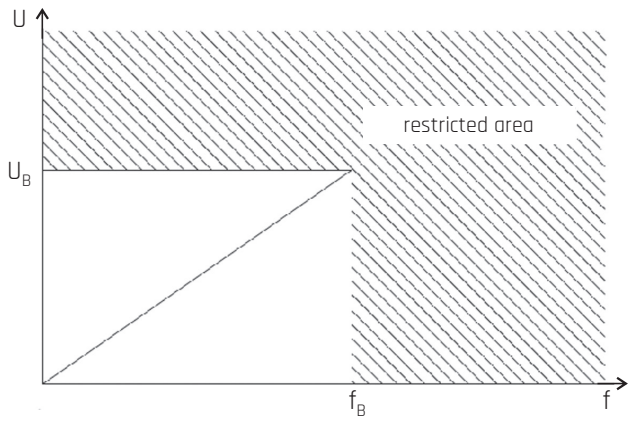
SPECIAL EXECUTIONS

- motor with voltage and frequency of power different than standard,
- motor with other than standard degree of protection,
- 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.

ErP Ready

WWW CE PZH

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



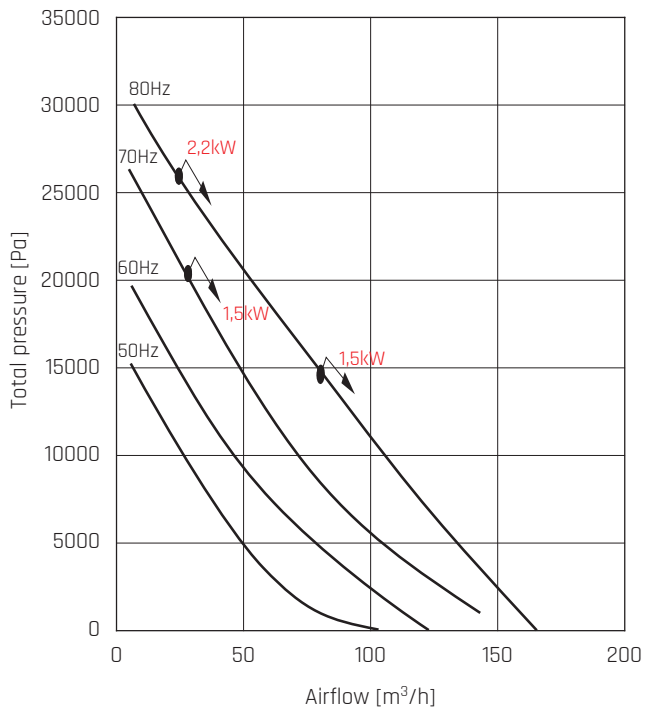
If the recommendations are not followed, the motor current increases disproportionately and the drive motor does not reach the rated speed. Under no circumstances should the frequency (rotational speed) be higher than the 100Hz frequency stated on the nameplate, because the motor may be overloaded or the fan damaged due to too high speed. The so-called boost, as this causes the drive motor to heat up too much. In order to protect the drive motor, a temperature sensor must be connected to the corresponding inputs of the converter.

TECHNICAL CHARACTERISTICS

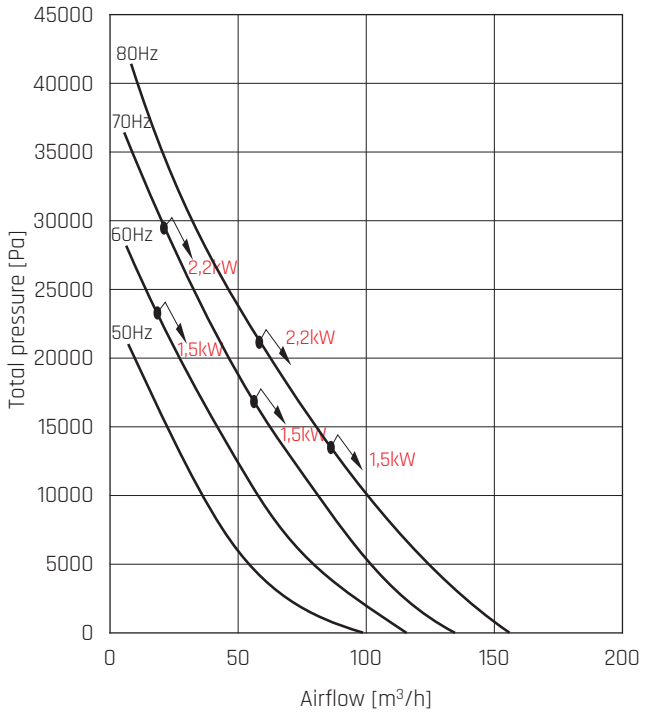
Type	airflow max	pressure max suction I pressing		speed	voltage	maximum absorbed current	motor power	cooling motor voltage	weight	article number
	[m^3/h]	[mbar]		[r.p.m.]	[V]	[A]	[kW]	[V]	[kg]	
SC-F-10-150T FC (230VAC)	164	205	235	4600	400VY 5-80Hz	3,2	1,5	230VAC 50Hz	22	46511610
SC-F-10-220T FC (230VAC)	164	260	295	4600	400VY 5-80Hz	4,7	2,2	230VAC 50Hz	24	46511615
SC-F-20-300T FC (230VAC)	270	215	300	4600	400VY 5-80Hz	6,1	3	230VAC 50Hz	34	46511630
SC-F-20-400T FC (230VAC)	270	290	300	4600	400VY 5-80Hz	7,5	4	230VAC 50Hz	37	46511635
SC-F-30-750T FC (230VAC)	510 (80Hz)	380	390	4600	400VY 5-80Hz	15	7,5	230VAC 50Hz	55	46511650
SC-F-40-1500T FC (230VAC)	1000 (80Hz)	280	285	4600	400VY 5-80Hz	29,5	15	230VAC 50Hz	155	46511665

PERFORMANCE CURVES

SC-F 10 SUCTION



SC-F 10 PRESSING



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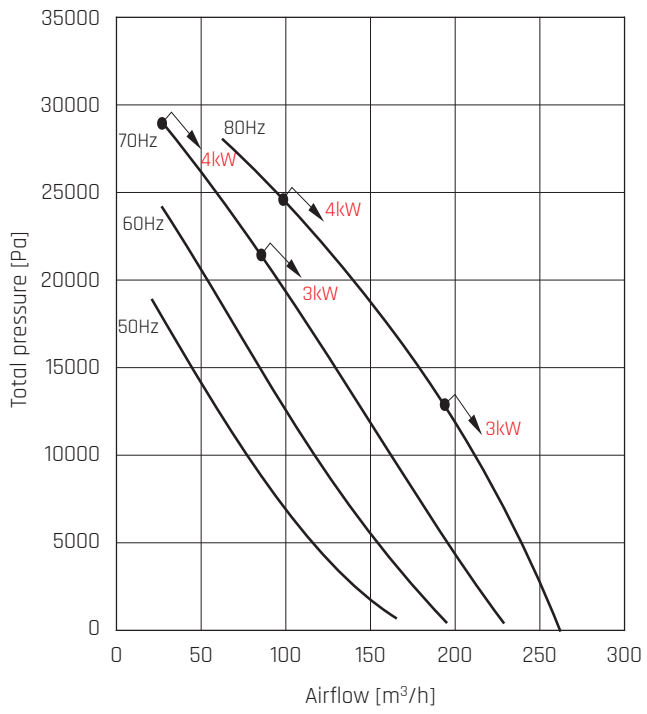

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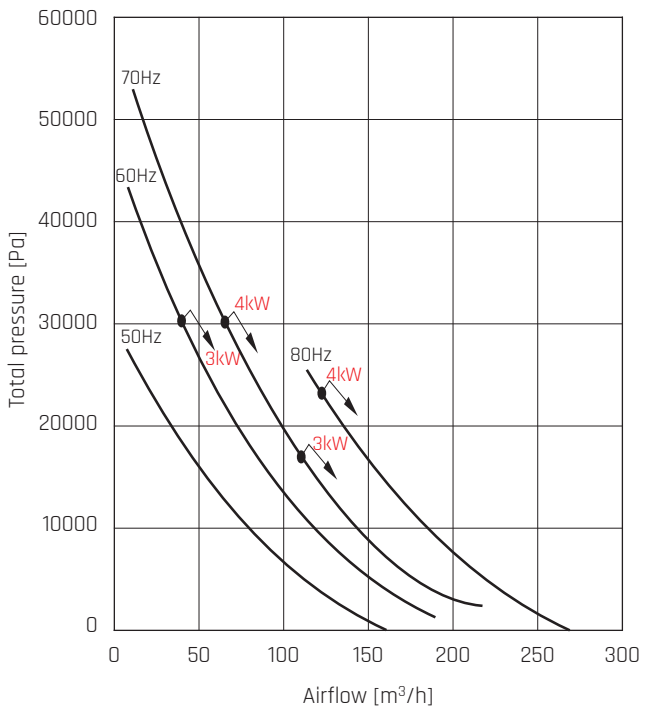
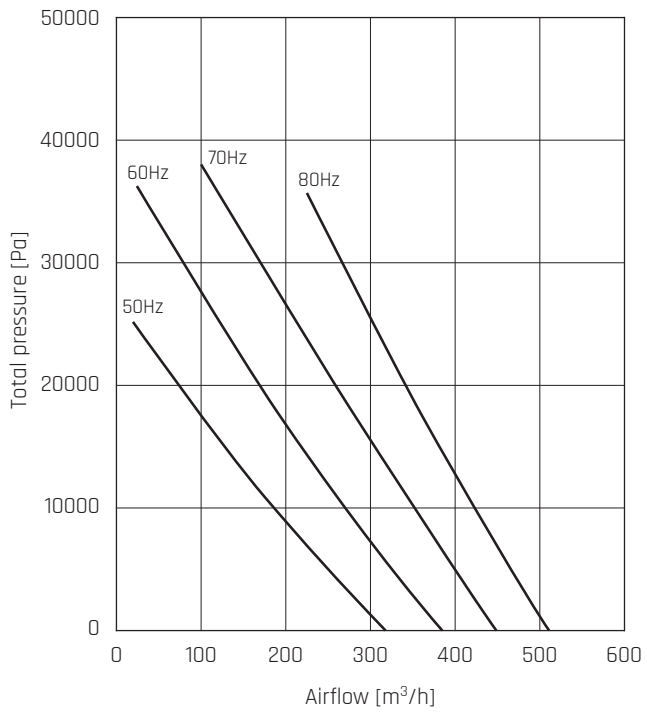


PERFORMANCE CURVES

SC-F 30 SUCTION



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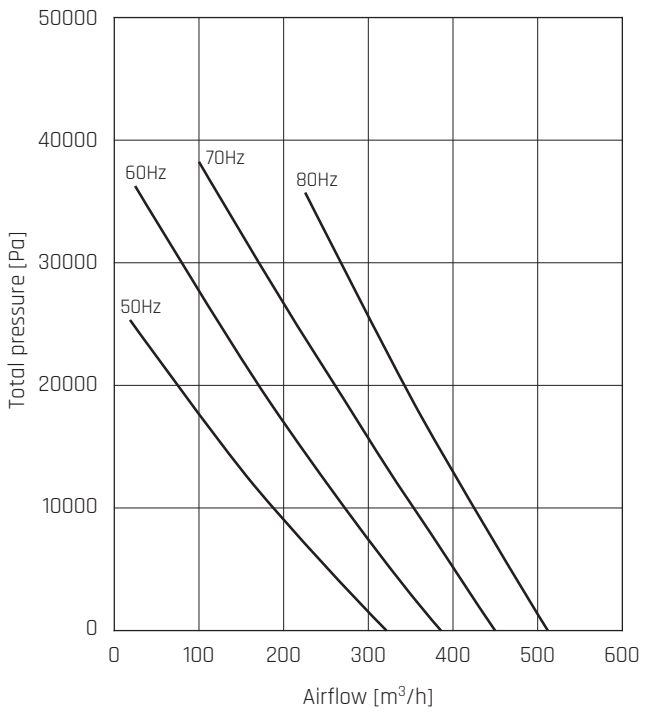
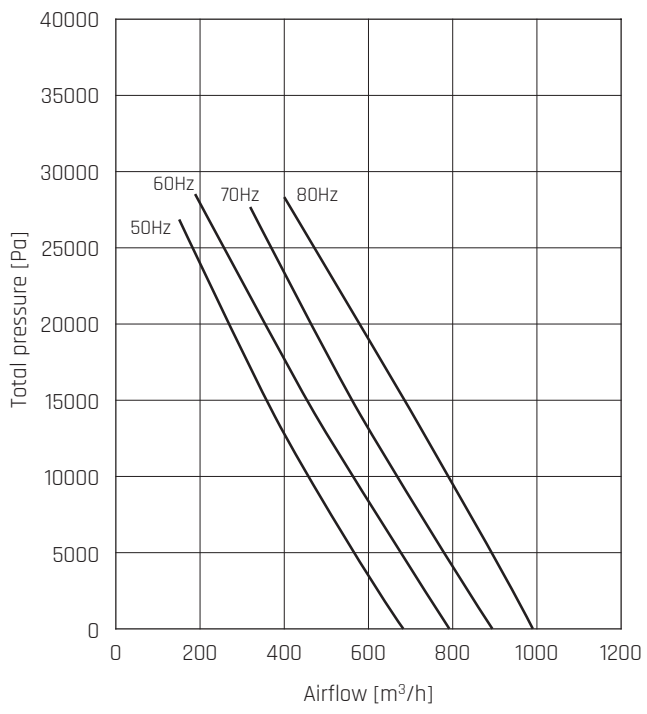
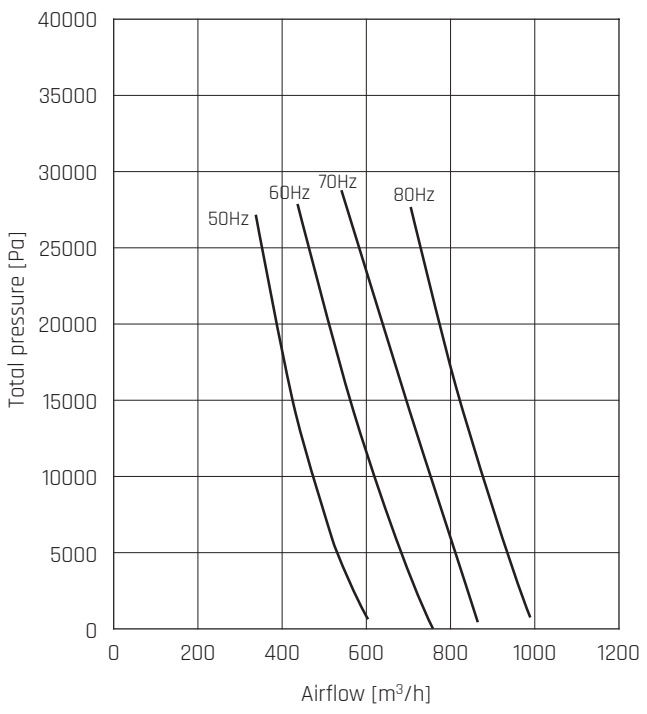


SC-F 40 SUCTION

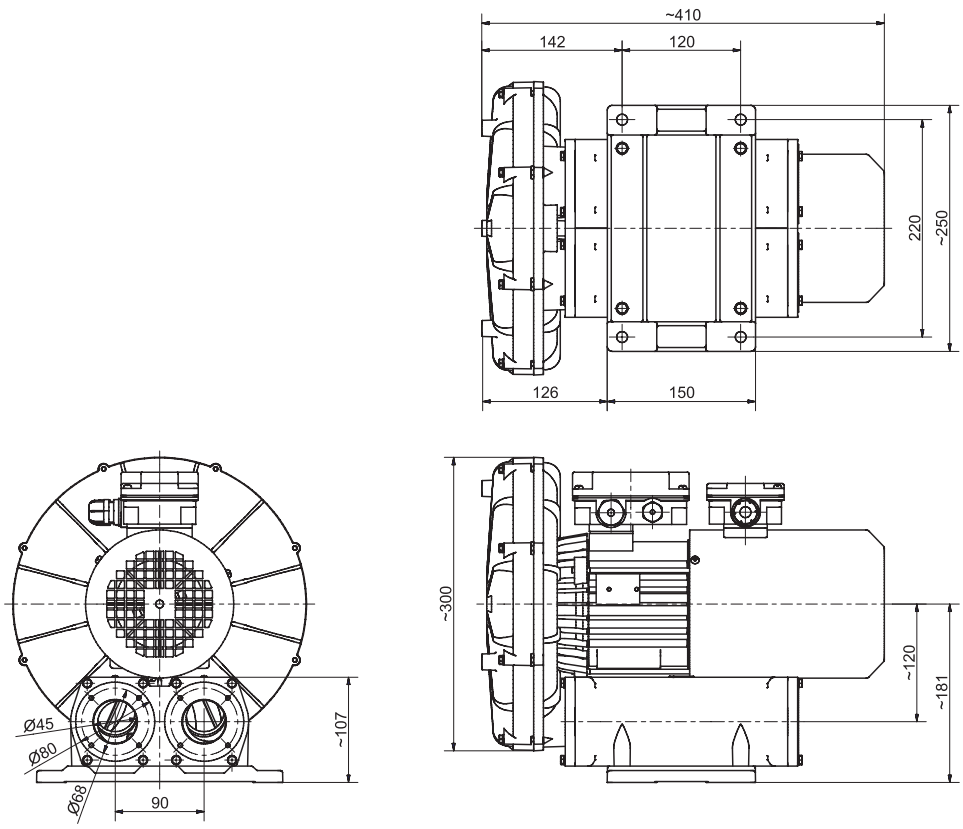


SC-F 40 PRESSING

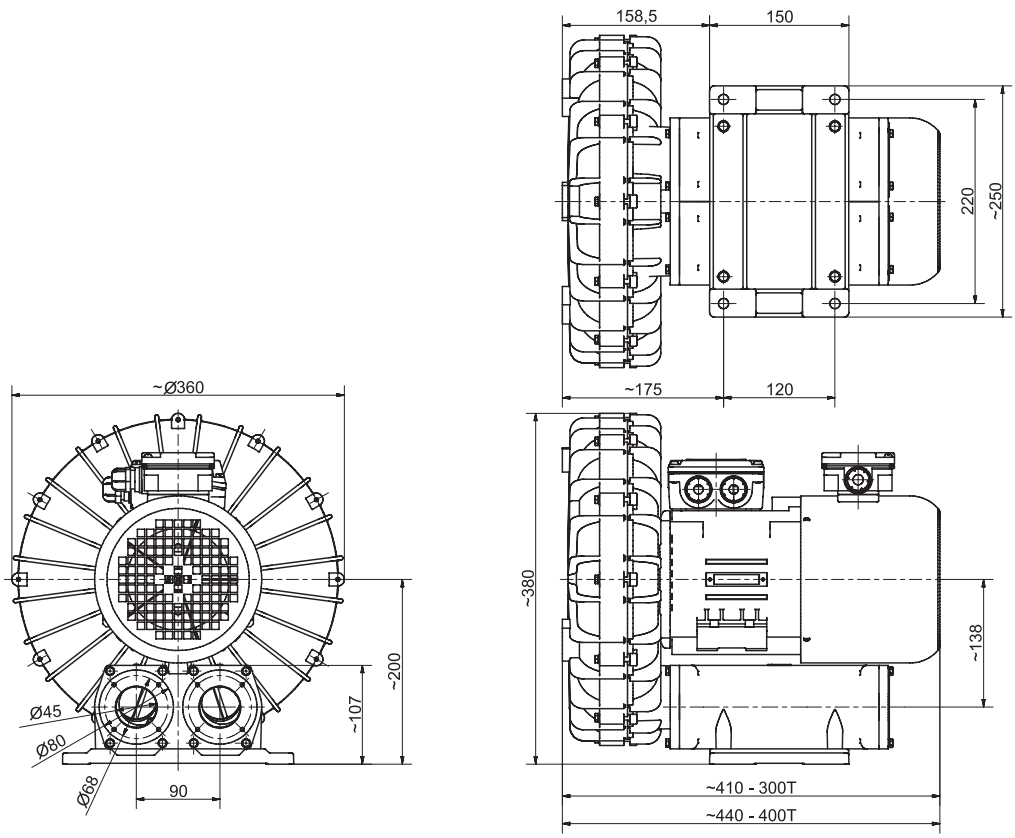


DIMENSIONS [mm]

SC-F 10 150T, 200T

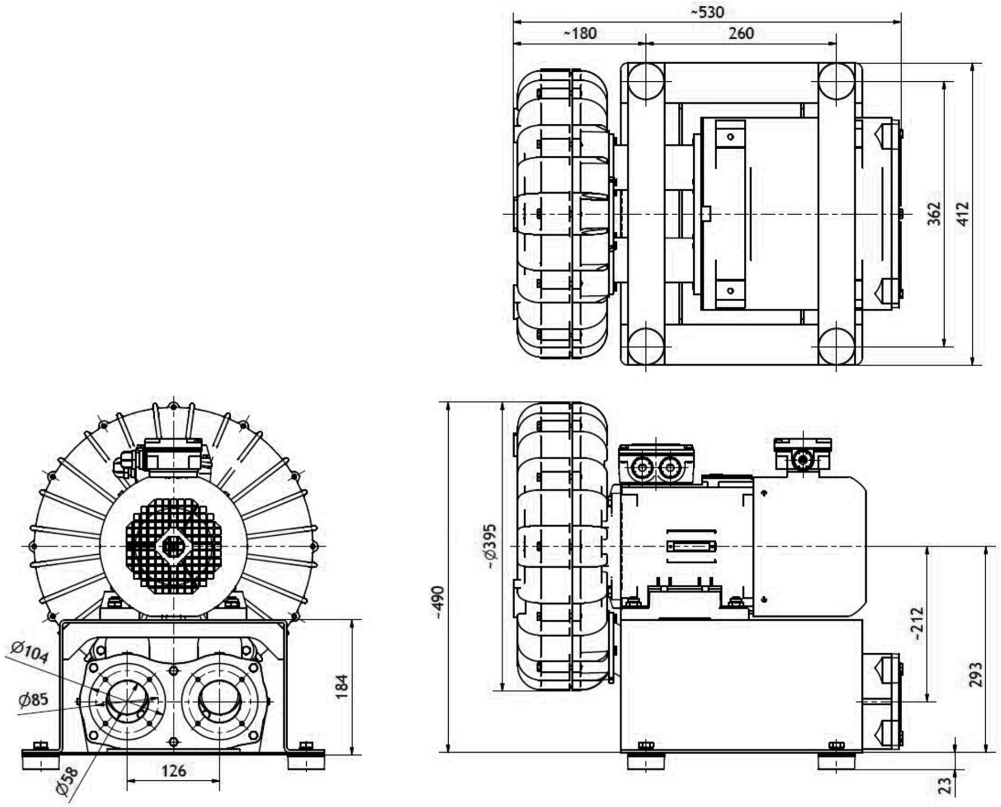
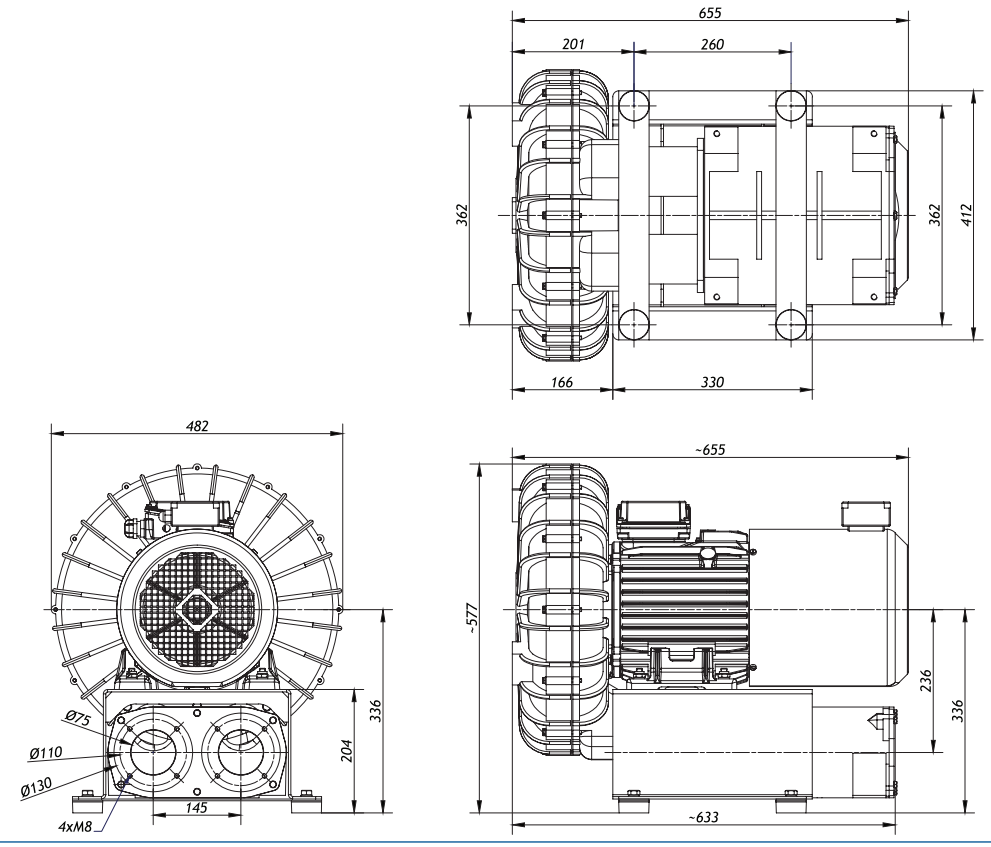


SC-F 20 300T, 400T



DIMENSIONS [mm]

SC-F 30 750T



SC-F 40 1500T