Elektror

We make air work.

SIDE CHANNEL BLOWERS SD

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Elektror side channel blowers offer a wide field of application facilities wherever the use of air as energy supply leads to optimum results. The fields of application listed below present just a small summary therefore of the wide range of possible use of these units.

- **Pneumatic air tube systems**
- **Pneumatic conveying systems**
- **Vacuum cleaning systems**
- **Vacuum lifting gear**
- **Vacuum transport systems**
- **Bottle-filling stations**
- **Printing machines**
- **Screen printing machines**
- **Air-cushion tables**
- **Drying systems**
- **Welding fume extraction**
- **Textile machinery**
- **Agricultural machines**
- **Dental equipment**
- **Water treatment**
- **Fish pond aeration**
- **Aquarium aeration**
- **Aeration of galvanic tanks**

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Elektror Side channel blowers offer:

- **Non-contact operating pressure and vacuum generators**
- **Low noise level**
- **Maintenance-free**
- **Compact design**
- **Completely oil-free**

1.1 Function

Impeller and side channel facing each other form a circularworking chamber which is intersected between intake and discharge port. The rotation of the impeller causes a radial pressure rise in the cellular-shaped vanes which leads to a differing pressure distribution between channel and impeller resulting in a rotational flow between channel and cellular vanes. The pressure generated by the vanes ensues a further acceleration in the direction of rotation leading to a helical flow motion through the blower and a high pressure increase.

1.2 Design

Elektror side channel blowers are directly driven by asynchronous squirrel cage motors of the company‘s own make. In addition, a range of models without motor is available for external drive by means of a V-belt or other drive elements.

Elektror side channel blowers are fitted with closes deep groove ball bearings with a minimum service life of 12 000 hours They do not have to be lubricade. The service life of the ball depends on the operating hours, the strain and other Influences such as temperature etc. A change of the deep groove ball bearings before the ending of the service life is recommended.

Amply dimensioned sealed bearings ensure maintenance-free operation. As standard equipment silencers are mounted on the discharge and intake side thereby reducing the noise level considerably. All blower and motor parts are cast aluminium and therefore highly resistant to corrosion. The ribs on the blower housing provide for a good heat dissipation, further assisted by the air flow of the motor fan. All blowers are equipped generally with base plate on the silencer and with rubber feet for mounting in a vertical or horizontal position.

1.3 Accessories

A variety of accessories allow for a convenient installation of the Elektror side channel blowers. Special dimensions of connectors, flanges etc. as well as other model variations may be supplied on demand and after consultation.

1.4 Operating performance

Elektror side channel blowers may be operated – pulsation-free – over the whole range of their performance curves. They are designed for the conveying of air as well as for generating pressure or vacuum. The use of the units for aggressive and toxic media, air of high humidity and medium temperatures exceeding +40° C is subject to a detailed clarification. The conveying of explosive gases is not permitted. The units are to be installed in weather-protected places and must not be exposed to strain by vibrations, shocks and percussions. Units above 3,5 kW must be started in Y/Δ configuration.

If the medium to be conveyed contains solid particles or other pollutions, they are to be removed before entering the blower by installing a filter – or similar device – on the intake side. Open intake or discharge ports should be fitted with corresponding wire mesh guards in accordance with DIN EN 294. Blowers with limited performance curves in the high pressure range should be fitted – depending on the application – with the relative pressure relief valves in order to avoid an overload of the motor. Pressure relief valves can be mounted directly on the discharge port, vacuum relief valves directly on the intake port of the blower. Adjustment of the permitted maximum pressure of the blower is made in the factory. It is possible to adjust the valves below the maximum pressure.

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The rated values indicated in the performance curves are valid within a tolerance of ± 10% at a density of the conveyed medium of 1,2 kg/m³.

1 mbar = 100 Pa = 100 N/m²

The sound pressure level is indicated as a function of the volumetric flow V̇. It has been ascertained at a distance of 1 m from the blower unit with reduction of the discharge port and an air duct connected to the intake side. The drive motors are manufactured in accordance with EN 60034-1 (VDE 0530 Part 1), amply dimensioned and suited for continuous operation. As a standard the motor insulation is class F and enclosure IP 54. Special voltage or frequency, multi-range windings, improved enclosure IP 55, tropical and humidity insulation, thermal class F as well as full motor protection may be supplied on demand. By request the side channel blowers can be speed controlled via frequency converter.
Furthermore the blowers can be equipped with explosion-proof squirrel cage motors of the protection class „increased safety" E Ex e II, temperature class T3. Detailed clarification with the factory is necessary.

-20° to +60° C	Standard motors with a rated voltage (**max. ± 10%** voltage tolerance) and a rated frequency of 50 Hz or 60 Hz
-20° to + 40° C	- Special-purpose motors multi-voltage range (50 Hz **and/or** 60 Hz) - FU/FUK series - flameproof motor - UL approval

Details about installation and operation of side channel blowers and reversing units may be obtained from the respective installation and operating instructions.

1.5 Variable-speed side channel blowers

These are used anywhere where changed volumetric flows or pressures are required for process control or process engineering reasons or these output parameters have to be kept constant.

Advantages:
- Energy and cost saving through optimized application
- Devices are operated with less stress, resulting in an extended life
- No unnecessary noise load and generation of heat

All side channel blowers can be executed so that they are suitable for frequency converter operation (speed-adjustable). In this connection, the motors have to be equipped with PTC thermistors and provided with a reinforced coil insulation. The speed range may not exceed 50 Hz in the 50 Hz version and 60 Hz in 60 Hz version. The technical data is identical to that of the standard versions. The converter is designed for mounting on the switch cabinet for separate frequency converter operation (type designation FU).
As an alternative, the compact frequency converter (up to max. 7.5 kW) is mounted directly on the motor (type designation FUK). Both frequency converter variants are available for EMC limit class B in the standard version. (Limit values for industrial application.)

Special executions
Various types of side channel blower are available in special executions. With motors with an increased output up to a maximum possible frequency of 80 Hz

Separate frequency converter	Compact frequency converter
SD 22FU-80/1,1	SD 22FUK-80/1,1
SD 4nFU-80/4,0	SD 4nFUK-80/4,0
SD 5FU-80/4,4	SD 5FUK-80/4,4
SD 7FU-80/7,5	SD 7FUK-80/7,5

In this case, considerably higher characteristic curve ranges compared to the basic units for 50 Hz and 60 Hz are obtained.

1.6 Reversing units

Elektror reversing units are motor driven reversing valves for the side channel blowers and are mounted directly onto them. They allow for generating alternate pressure or vacuum in pipes, installations or systems within the shortest possible time, or to reduce pressure or vacuum to zero, without having to change the direction of rotation of the blower nor switching it off.

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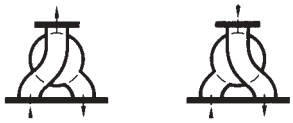
The non-contact actuating piston is driven by a reversible synchronous gear motor which is set into the required position by pole reversal: All reversing valves are cast aluminium and therefore highly resistant to corrosion. One-sided sealed, deep groove ball bearings are used for the bedding of the actuating piston. Connecting flanges to the consumer system as well as discharge and intake connectors ensure problem-free installation and the possibility to attach all accessories such as fine filters, silencers, relief pressure valves etc.

Models with the appendix „1" - e.g. RA ../1 – are variations of the standard model and to be used if side channel blowers „with base plate" are anchored to a level surface. The discharge and intake air flow is radially lateral in this case. Various models guarantee optimum conditions of application:

RA.. RA../1	Switch-over from pressure to vacuum operation or vice versa.	 Blower Blower
RA..D RA../1D	Switch-over from pressure operation to a neutral intermediate position (pressure to system is cut off) or vice versa.	 Blower Blower
RA..S RA../1S	Switch-over from vacuum operation with neutral intermediate position (vacuum on system is cut off) or vice versa.	 Blower Blower
RAZ.. RAZ../1	Switch-over from pressure to vacuum operation with neutral intermediate position (pressure or vacuum to system is cut off) or vice versa.	 Blower Blower Blower
RAGZ.. RAGZ../1	Switch-over from pressure or vacuum operation with neutral intermediate position (pressure or vacuum to system is cut off) or vice versa. In the neutral position the consumer port is closed down.	 Blower Blower Blower

1.7 Details for ordering

Blower type
Flow volume
Required total pressure difference
Voltage, frequency, three or single phase a.c.
Ambient and conveyed medium temperatures
Density of conveyed medium
Conveyed medium
Field of application
Accessories/special requirements

1.8 Remarks

Dimensions, technical data and descriptions are approximate only. Subject to modifications and errors.

1.9 Conversion table

Units of measurement

	from unit of measurement	with conversion factor	into units of measurement	from units of measurement	with conversion factor	into units of measurement
Pressure	bar	1000	mbar	mbar	0,001	bar
Pressure	mbar	100	Pa	Pa	0,01	mbar
Pressure	mmWS	0,098	mbar	mbar	10,2	mm H_2O
Pressure	mWS	98,07	mbar	mbar	0,0102	mm H_2O

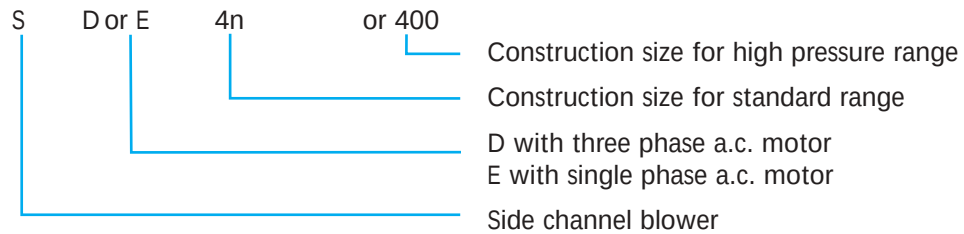
European units of measurement in the USA

	from SI-unit of measurement	with conversion factor	into anglo-amer. unit of measur.	from anglo-amer. unit of measur.	with conversion factor	into SI-unit of measurement
Pressure	mbar	0,0145	psi = lb/in²	psi = lb/in²	68,95	mbar
Pressure	bar	14,5	psi = lb/in²	psi = lb/in²	0,0689	bar
Pressure	mbar	0,402	inches water	inches water	2,49	mbar
Volumetric flow rate	m³/min	264,2	gal/min	gal/min	0,00379	m³/min
Volumetric flow rate	m³/min	35,31	cfm	cfm	0,0283	m³/min
Electrical Power output	kW	1,341	hp	hp	0,746	kW
Length	mm	0,0394	inch	inch	25,4	mm
Length	m	39,37	inch	inch	0,0254	m
Length	mm	0,00328	ft	ft	305	mm
Length	m	3,28	ft	ft	0,305	m
Weight	kg	2,205	lb	lb	0,454	kg

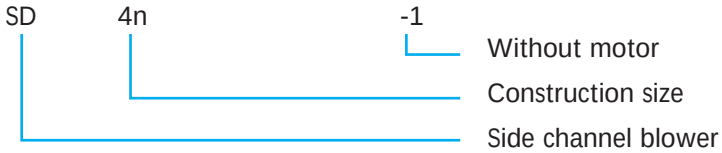
Example of conversion						
Pressure	180 mbar	0,0145	2,61 PSI	2,61 PSI	68,95	180 mbar
Volumetric flow rate	6 m³/min	35,31	211,8 ft³/min	211,8 ft³/min	0,0283	6 m³/min

2. Type code

Standard blowers and high pressure range



Execution without motor



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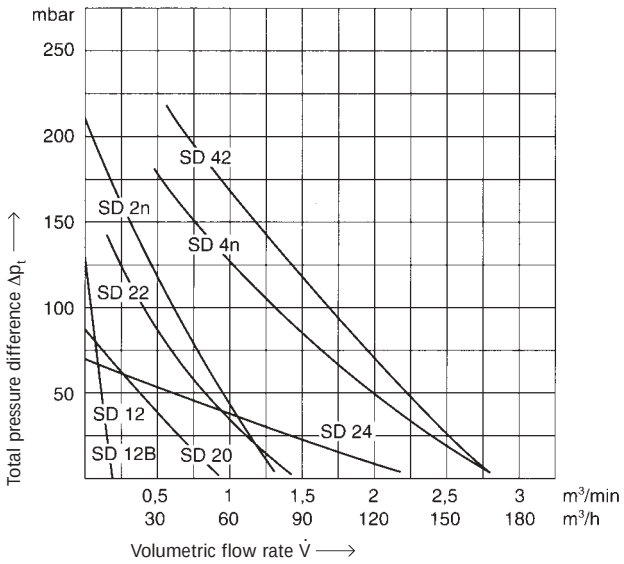
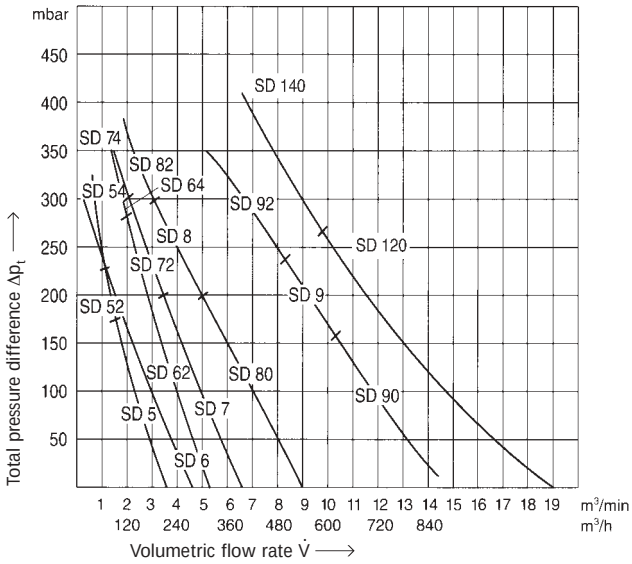
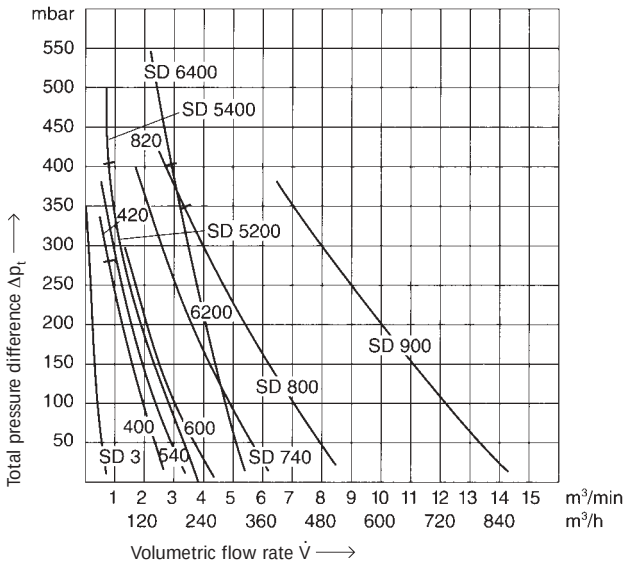
Standard blowers Page 8-15



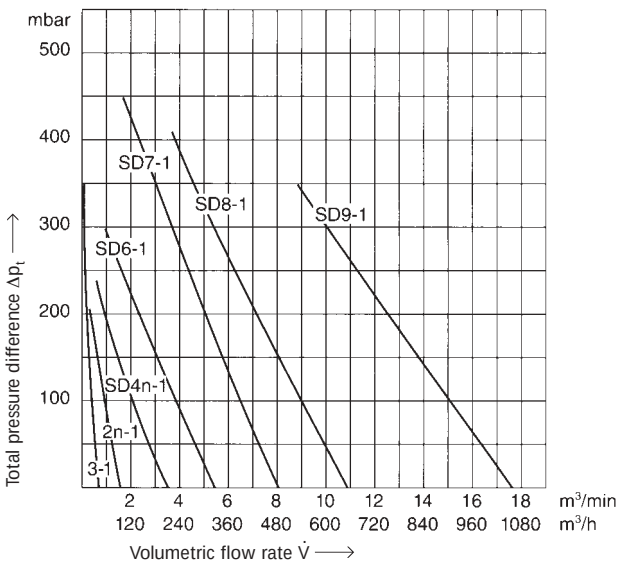
Standard blowers Page 16-23



High pressure range Page 24-32



Without motor Page 33-36



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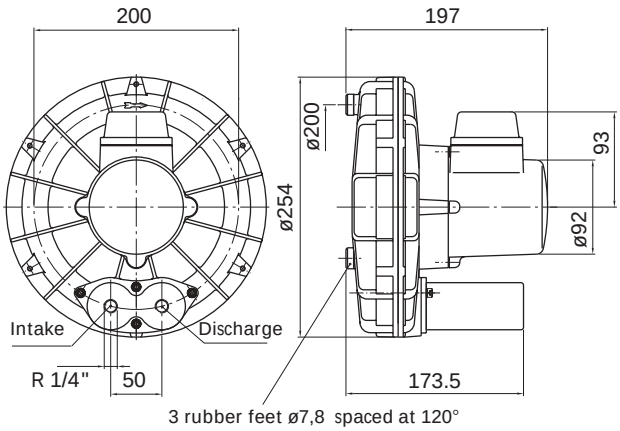
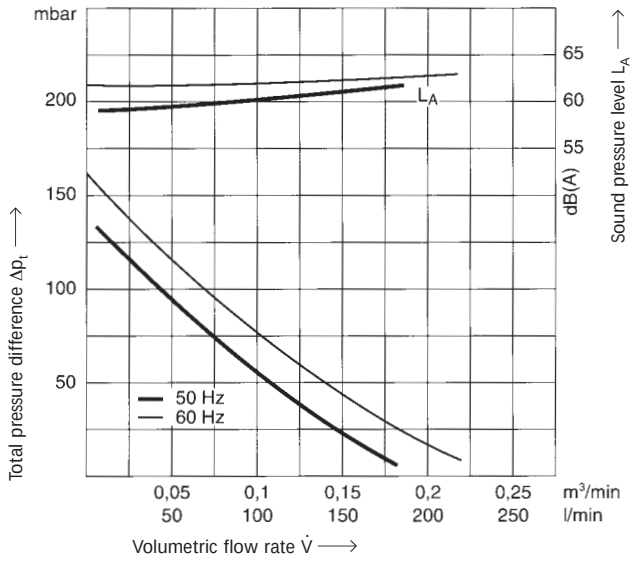
SD 12, SE 12



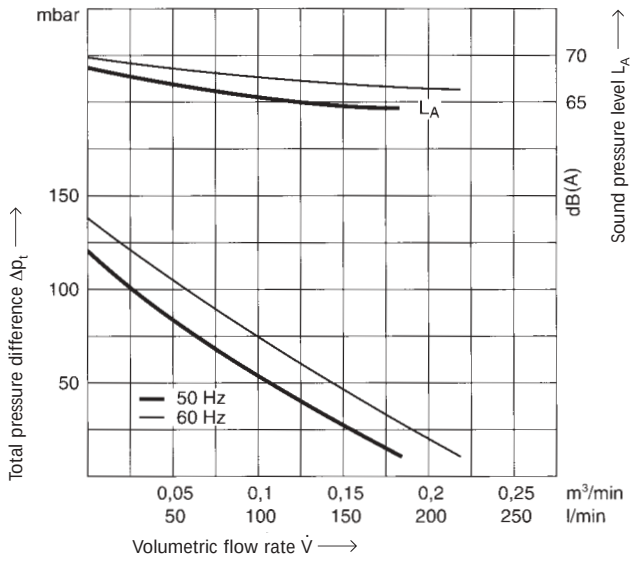
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Capacitor	Weight
		V̇ max.	Δp$_t$ max.	V̇ max.	Δp$_t$ max.	Rated output	Voltage	Current	RPM	230 V	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min^{-1}	µF/V	kg
SD 12	50	0,18	130	0,18	120	0,09	230/400	0,52/0,30	2800	-	6,8
SD 12	60	0,22	160	0,22	130	0,12	277/480	0,48/0,28	3400	-	6,8
SE 12	50	0,15	130	0,15	120	0,09	230	0,8	2860	3/450	6,8
SE 12	60	0,18	160	0,18	130	0,12	230	0,75	3400	3/450	6,8

Pressure



Vacuum



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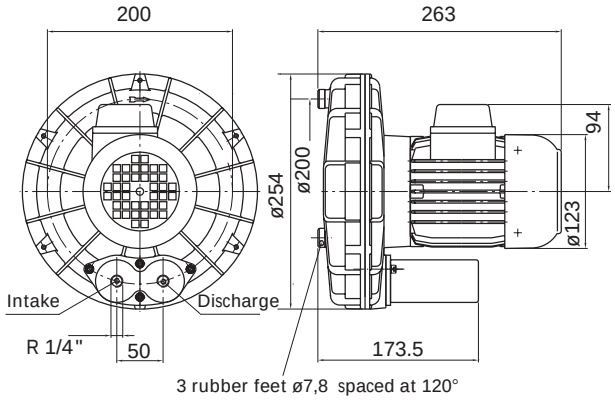
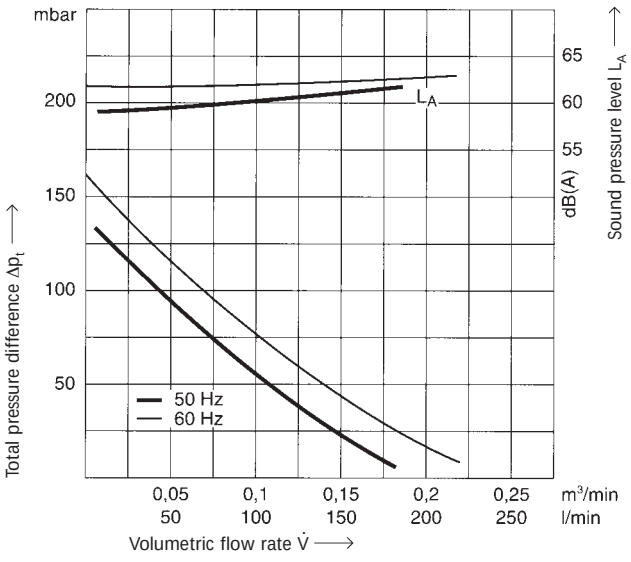
SD 12 B



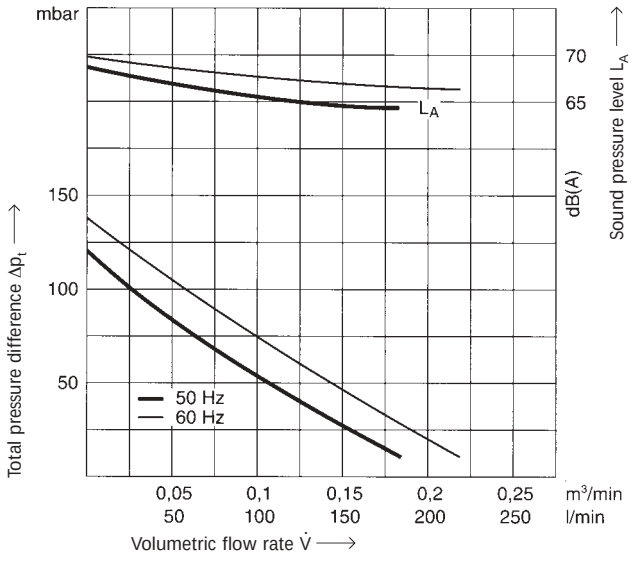
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Capacitor	Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	230 V	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	µF/V	kg
SD 12 B	50	0,18	130	0,18	120	0,1	230/400	1,1/0,63	2930	-	7,7
SD 12 B	60	0,22	160	0,22	130	0,12	277/480	1,13/0,65	3500	-	7,7

Pressure



Vacuum



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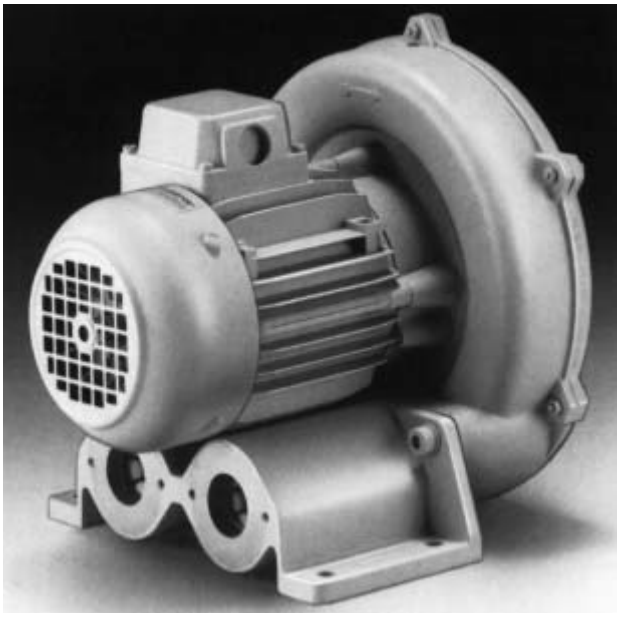
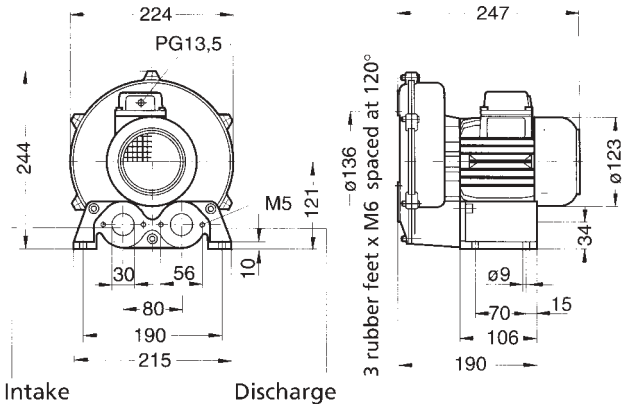
SD 20, SE 20

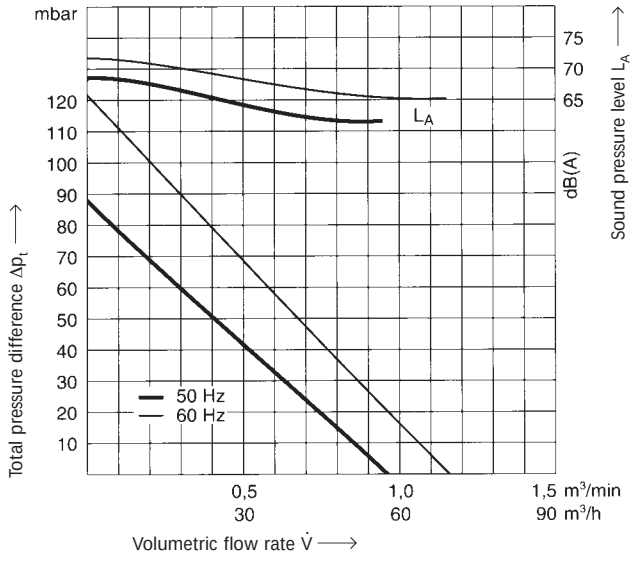




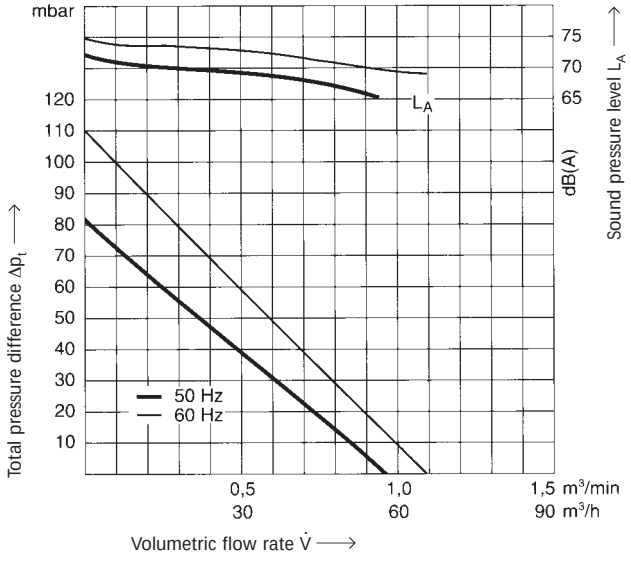
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Capacitor	Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	230 V	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	µF/V	kg
SD 20	50	0,95	85	0,95	80	0,18	230/400	1,07/0,62	2850	-	8,5
SD 20	60	1,15	120	1,10	110	0,30	277/480	1,21/0,70	3360	-	8,5
SE 20	50	0,95	80	0,95	75	0,19	230	1,6	2800	10/450	8,5
SE 20	60	1,15	120	1,10	110	0,33	230	2,35	3400	12/450	9,3

Pressure



Vacuum



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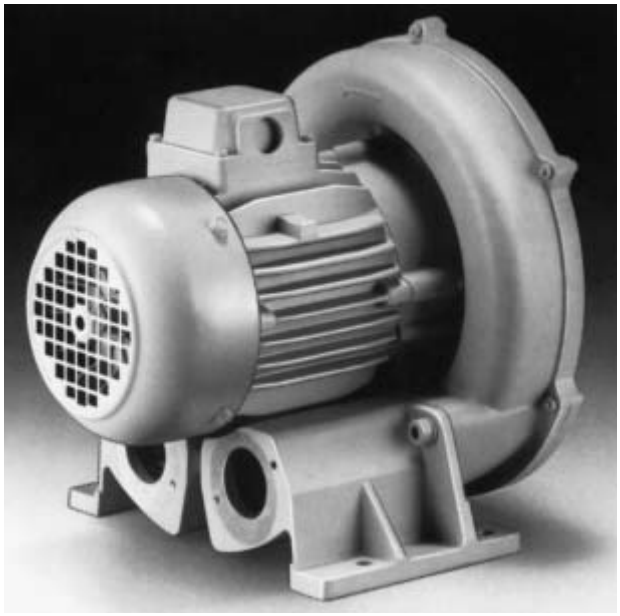
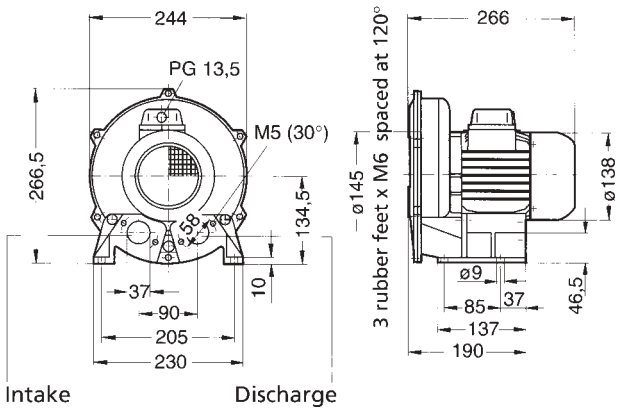
SD 22, SE 22

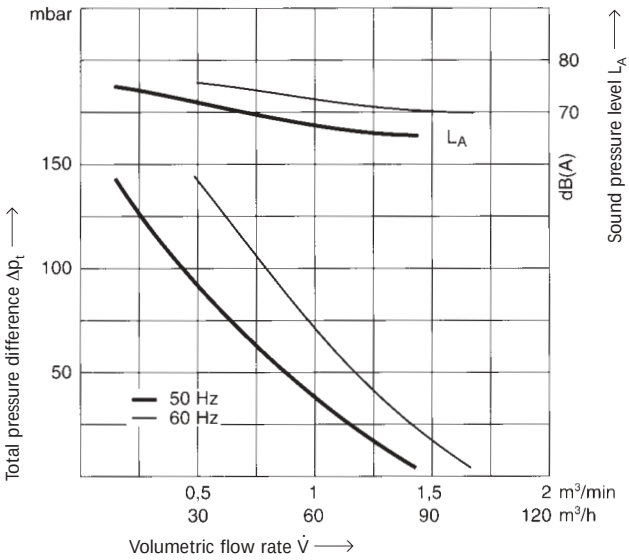




Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Capacitor	Weight
		V̇ max.	Δp,max.	V̇ max.	Δp,max.	Rated output	Voltage	Current	RPM	230 V	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	µF/V	kg
SD 22	50	1,45	140	1,45	140	0,46	230/400	1,91/1,1	2810	-	11,3
SD 22	60	1,70	140	1,70	140	0,62	277/480	2,1/1,2	3390	-	11,3
SE 22	50	1,45	140	1,45	140	0,48	230	2,8	2830	16/450	12,8
SE 22	60	1,70	140	1,70	140	0,60	230	3,8	3420	16/450	12,8

Pressure



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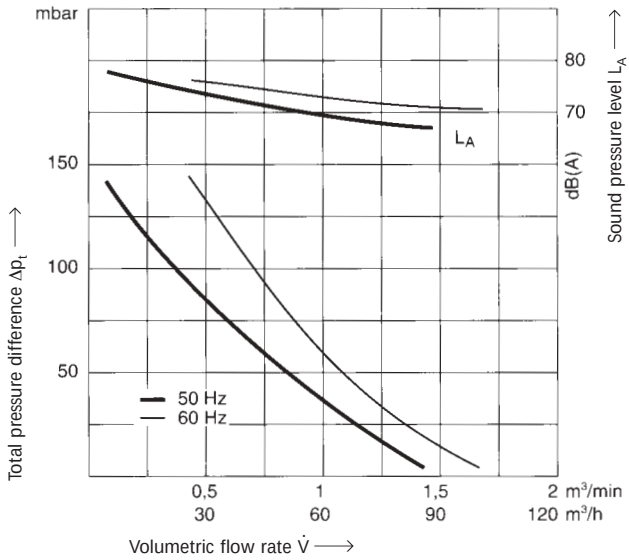
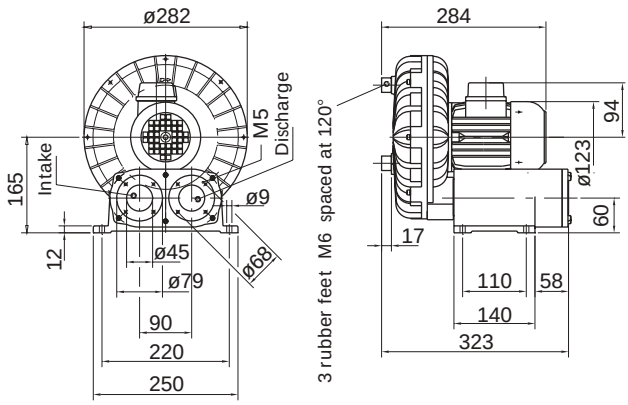


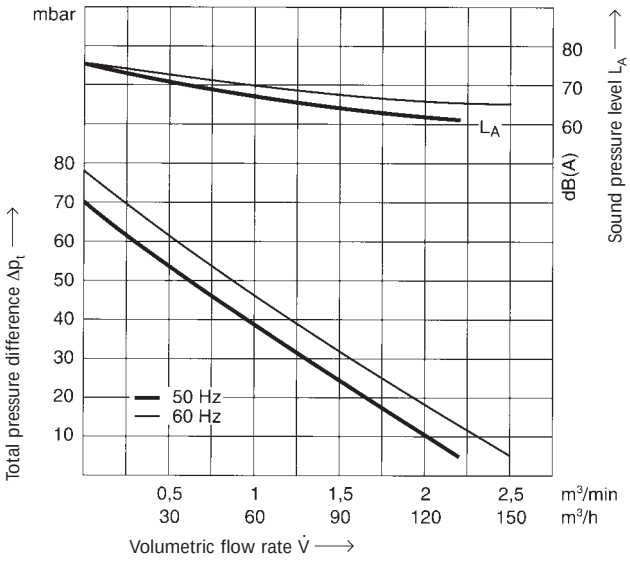
SD 24, SE 24



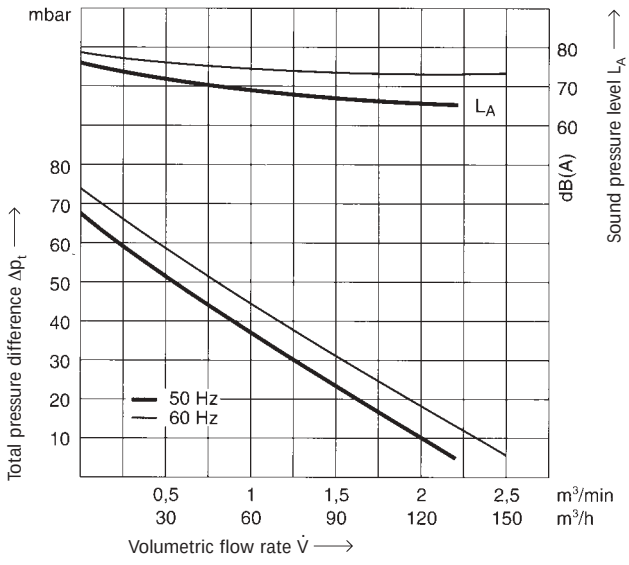
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Capacitor	Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	230 V	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	µF/V	kg
SD 24	50	2,2	70	2,2	67	0,36	230/400	2,1/1,2	2800	-	14,5
SD 24	60	2,5	77	2,5	72	0,47	277/480	2,3/1,32	3370	-	14,5
SE 24	50	2,2	68	2,2	66	0,34	230	2,5	2660	12/450	14,5
SE 24	60	2,5	68	2,5	68	0,45	230	2,8	3280	12/450	14,5

Pressure



Vacuum



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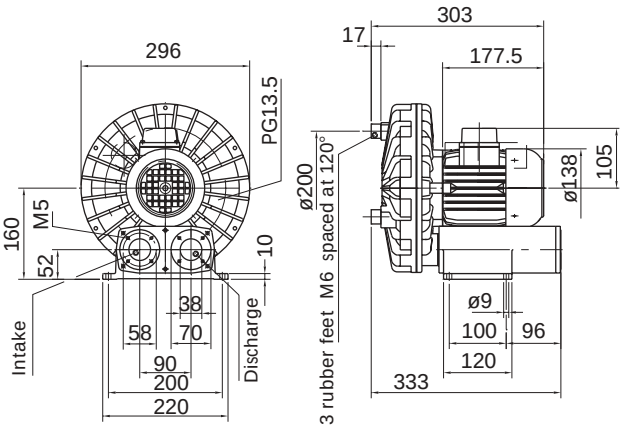
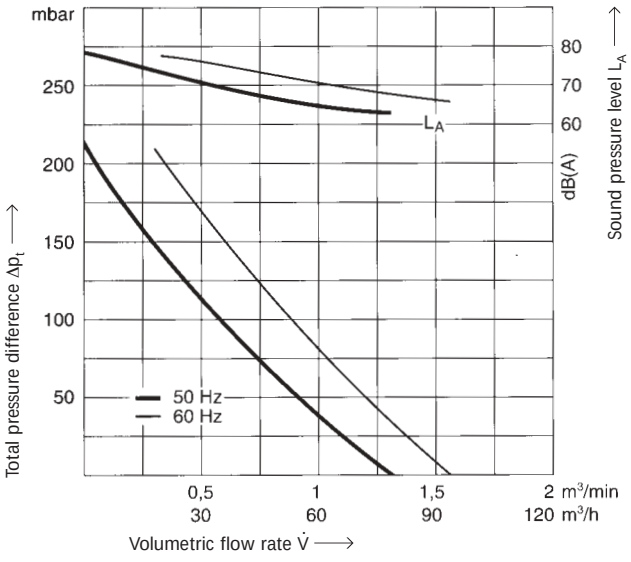
SD 2n, SE 2n



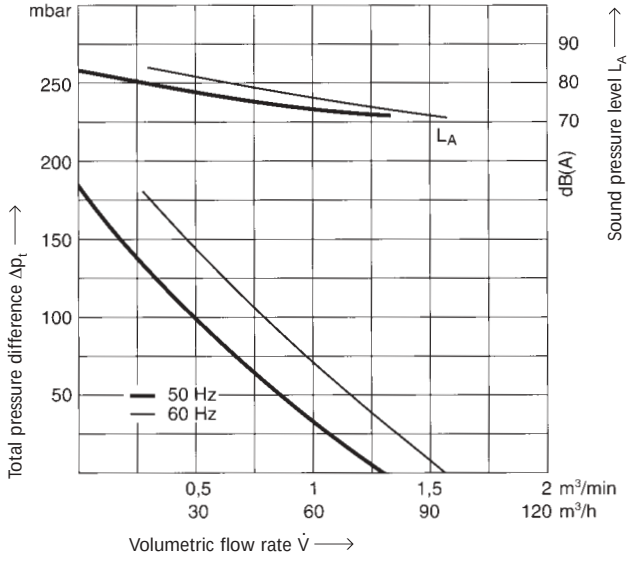
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Capacitor	Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	230 V	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	µF/V	kg
SD 2n	50	1,3	210	1,3	180	0,52	230/400	2,8/1,6	2840	-	15
SD 2n	60	1,55	210	1,55	180	0,65	277/480	2,6/1,5	3430	-	15
SE 2n	50	1,3	210	1,3	180	0,52	230	3,5	2800	16/450	15
SE 2n	60	1,55	210	1,55	180	0,74	230	4,5	3360	16/450	15

Pressure



Vacuum



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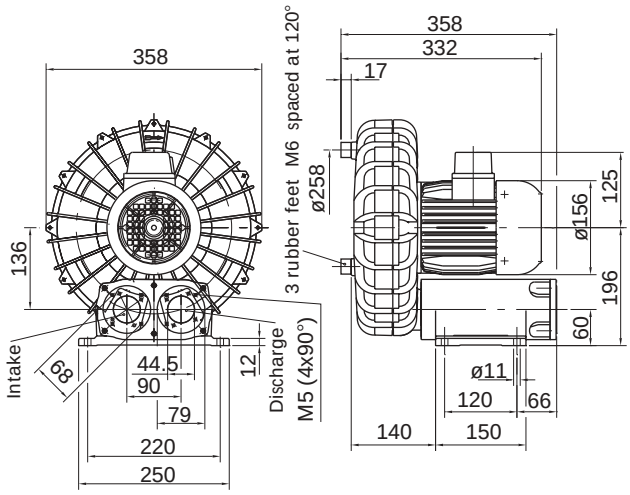
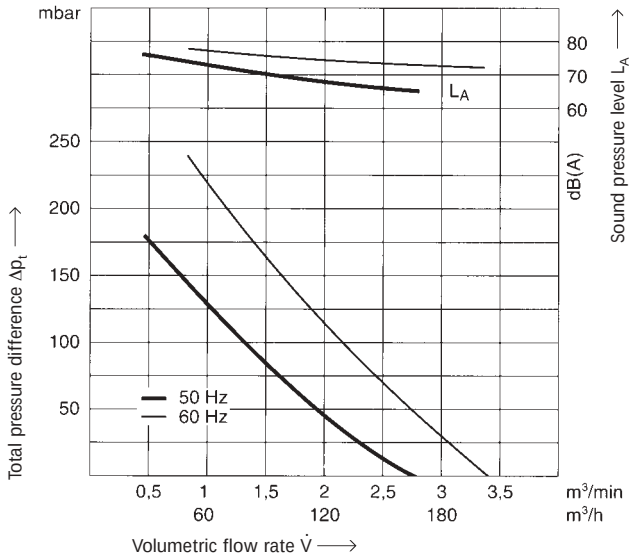
SD 4n, SE 4n



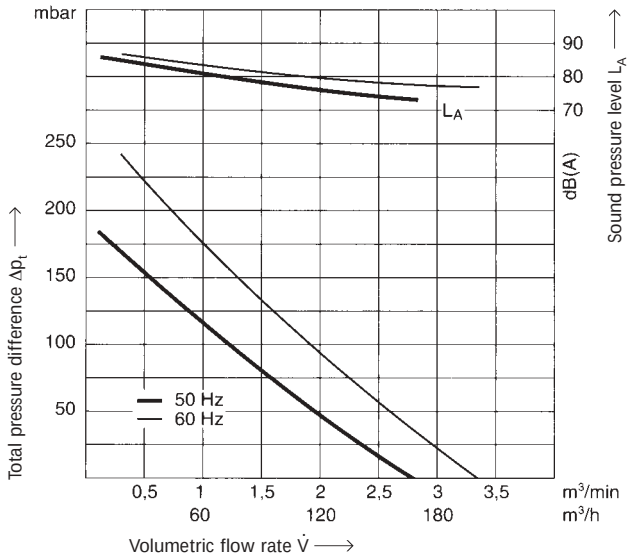
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Capacitor	Weight
		V̇ max.	Δp$_t$ max.	V̇ max.	Δp$_t$ max.	Rated output	Voltage	Current	RPM	230 V	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min^{-1}	µF/V	kg
SD 4n	50	2,8	180	2,8	180	0,95	230/400	4,0/2,3	2730	-	20
SD 4n	60	3,4	240	3,4	240	1,6	277/480	5,7/3,3	3400	-	21,2
SE 4n	50	2,8	180	2,8	180	0,95	230	6,5	2830	30/450	21,2
SE 4n	60	3,4	240	3,4	240	1,5	230	10,0	3300	3/450	21,2

Pressure



Vacuum



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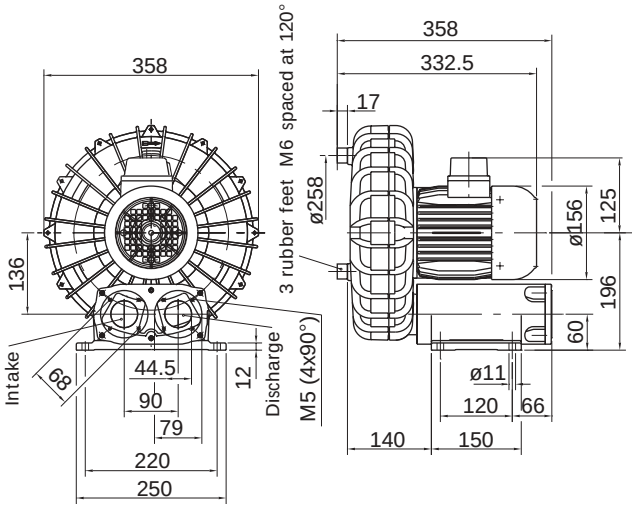
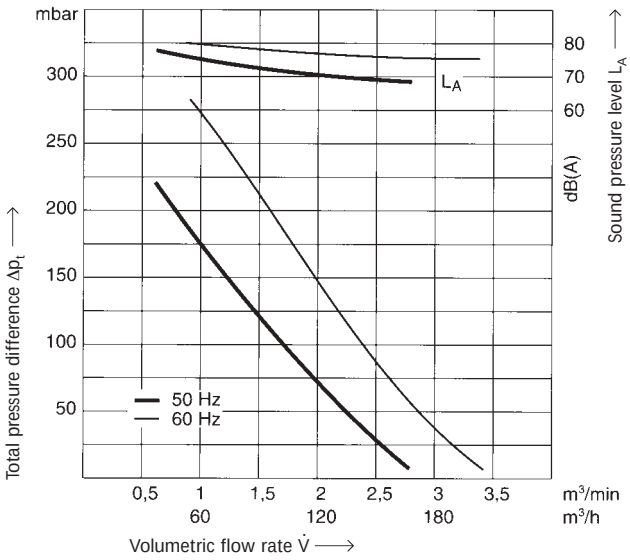
SD 42, SE 42



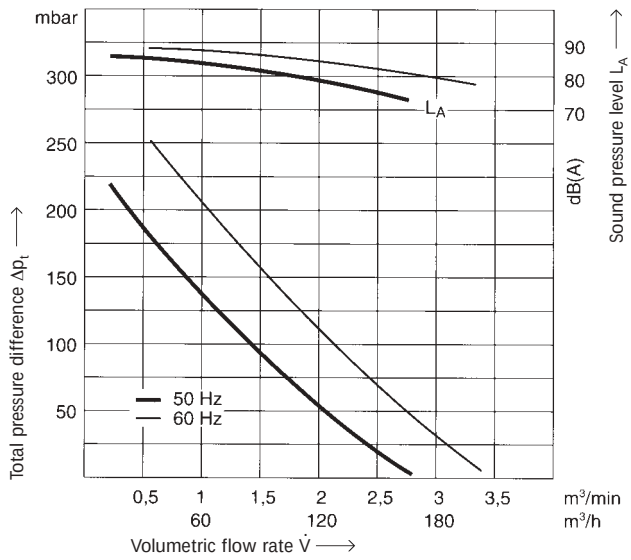
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Capacitor	Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	230 V	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	µF/V	kg
SD 42	50	2,8	220	2,8	220	1,3	230/400	5,2/3,0	2800	-	21,3
SD 42	60	3,4	280	3,4	250	1,9	277/480	6,9/4,0	3480	-	23,2
SE 42	50	2,8	220	2,8	220	1,3	230	8,0	2880	30/450	24,0
SE 42	60	3,4	280	3,4	250	2,0	230	12,0	3480	3/450	26,5

Pressure



Vacuum



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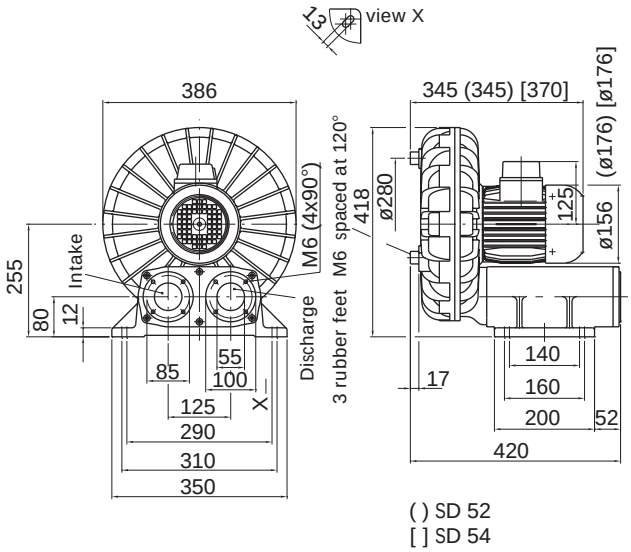
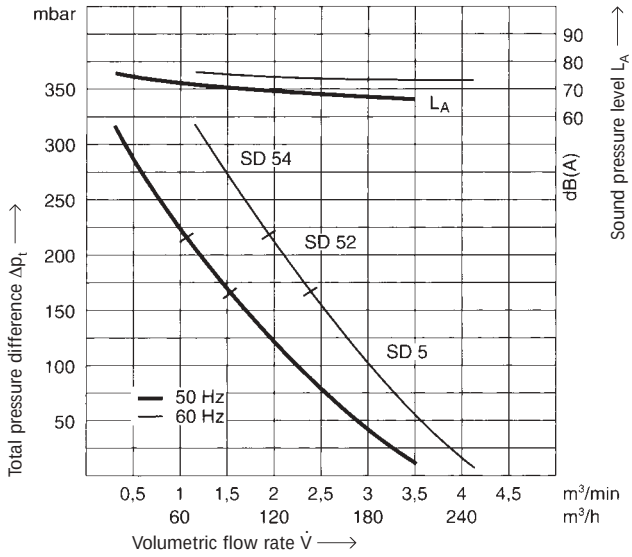
SD 5, SD 52, SD 54



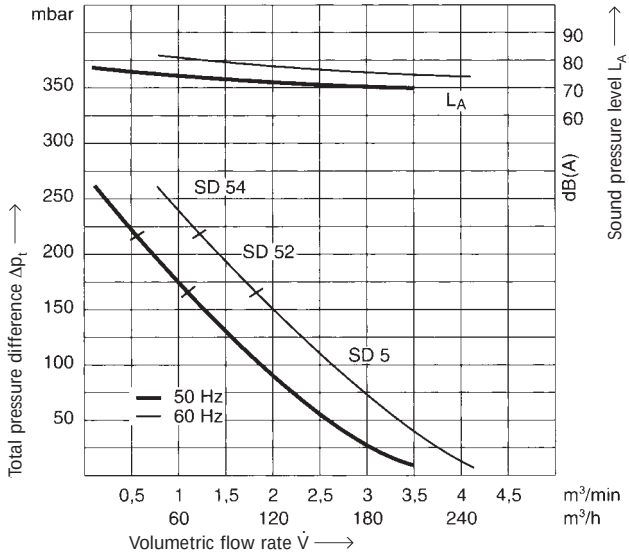
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 5	50	3,5	170	3,5	170	1,2	230/400	4,85/2,8	2800	29,5
SD 5	60	4,2	170	4,2	170	1,6	277/480	5,2/3,0	3400	29,5
SD 52	50	3,5	220	3,5	220	1,5	230/400	5,9/3,4	2860	30,0
SD 52	60	4,2	220	4,2	220	2,0	277/480	6,2/3,6	2480	30,0
SD 54	50	3,5	320	3,5	260	2,0	230/400	8,0/4,6	2900	34,0
SD 54	60	4,2	320	4,2	260	2,2	277/480	8,5/4,9	3480	34,0

Pressure



Vacuum



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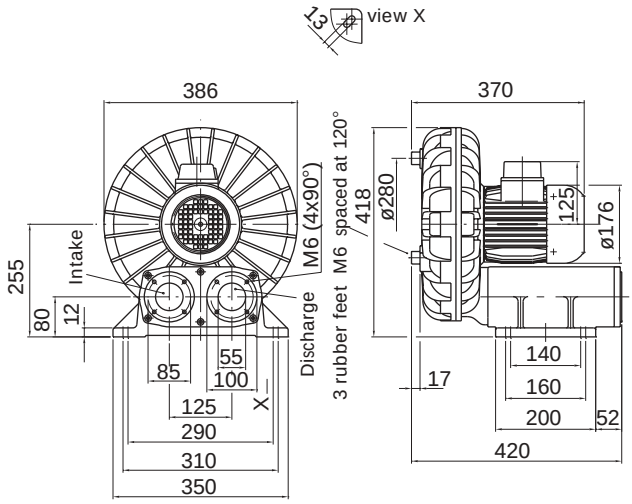
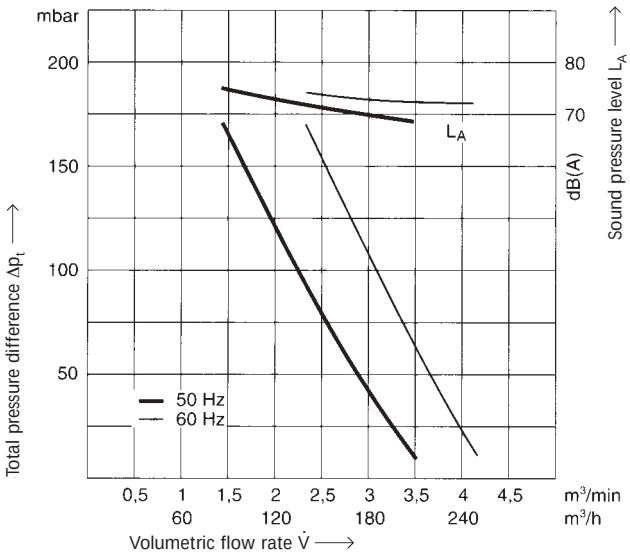
SE 5



Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Capacitor	Weight
		V̇ max.	Δp$_t$max.	V̇ max.	Δp$_t$max.	Rated output	Voltage	Current	RPM	230 V	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min^{-1}	µF/V	kg
SE 5	50	3,5	170	3,5	170	1,3	230	8,5	2880	30/450	31,5
SE 5	60	4,2	170	4,2	170	1,6	230	10,0	3500	40/450	34,0

Pressure



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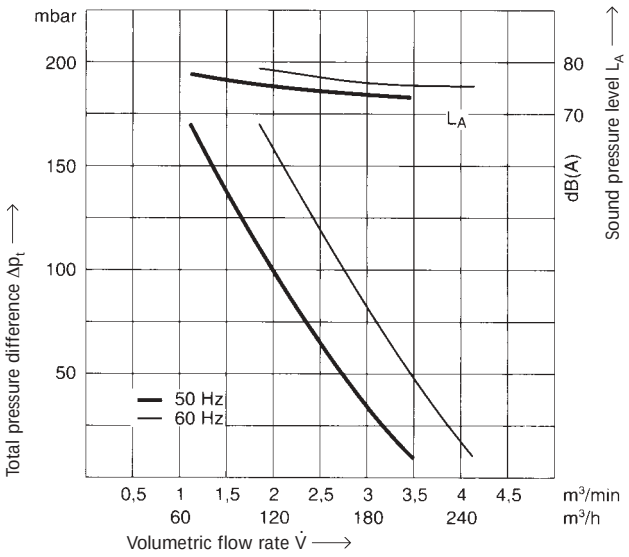
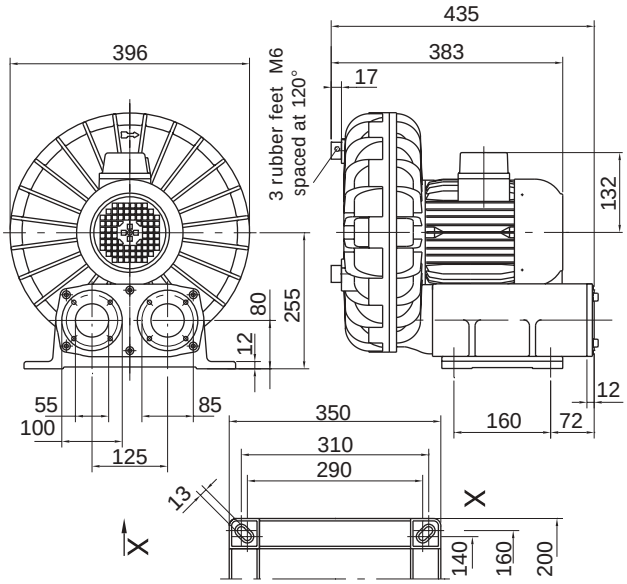


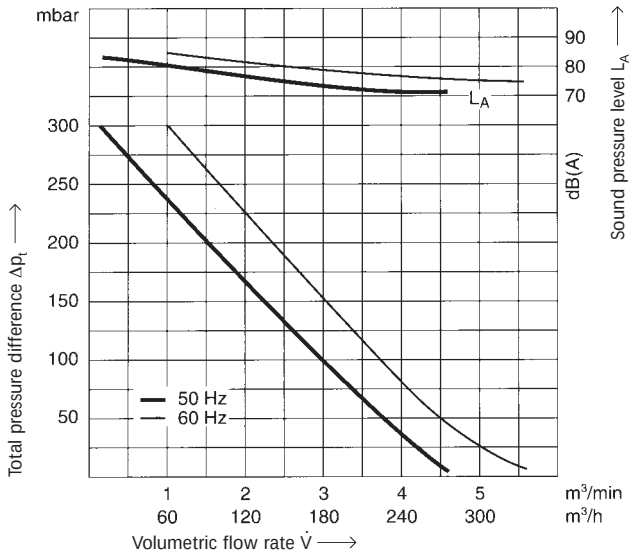
SD 6



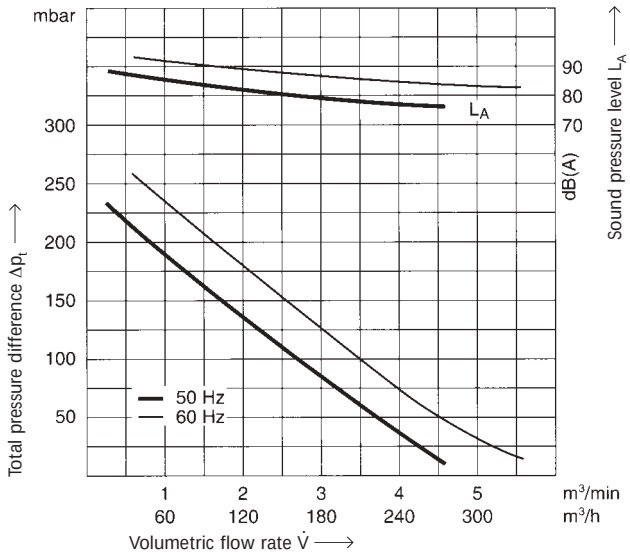
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 6	50	4,6	300	4,6	230	2,3	230/400	9,5/5,5	2870	35,0
SD 6	60	5,6	300	5,6	260	3,1	277/480	10,4/6,0	3440	35,0

Pressure



Vacuum



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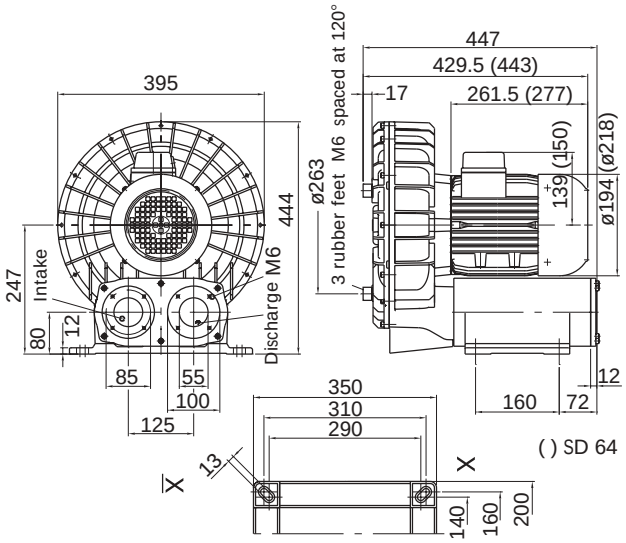
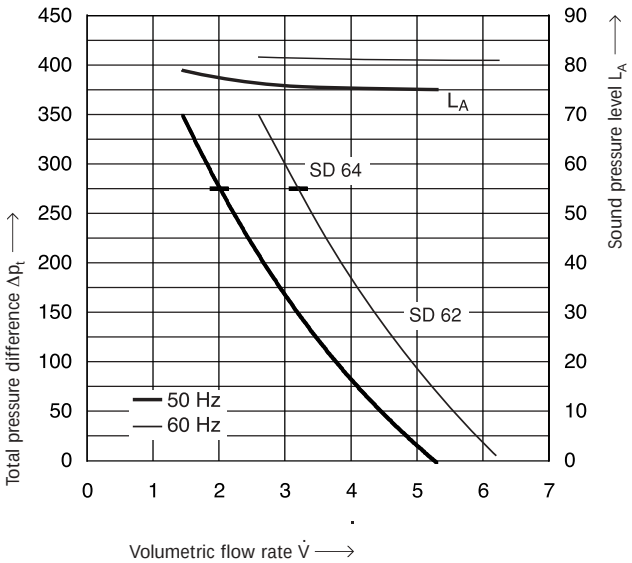
SD 62, SD 64



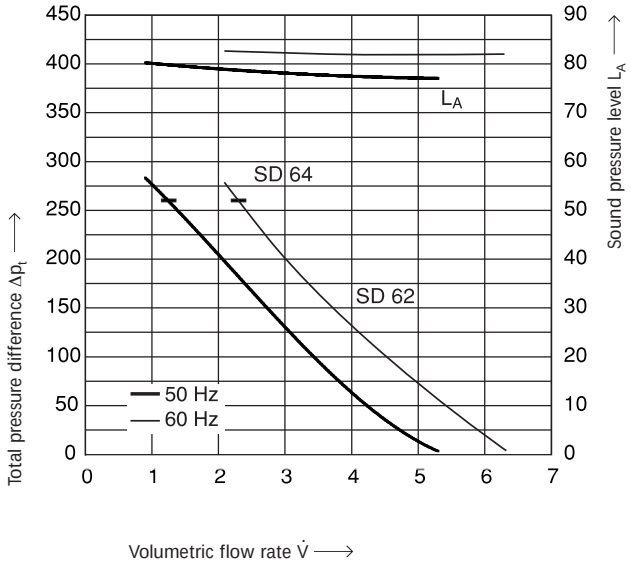
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 62	50	5,3	275	5,3	260	3,0	230/400	10,9/6,3	2850	40,0
SD 62	60	6,3	275	6,3	260	3,8	277/480	11,4/6,6	3450	40,0
SD 64	50	5,3	350	5,3	280	4,0	400 Δ	8,0	2900	48,0
SD 64	60	6,3	350	6,3	280	5,0	480 Δ	8,6	3500	48,0

Pressure



Vacuum



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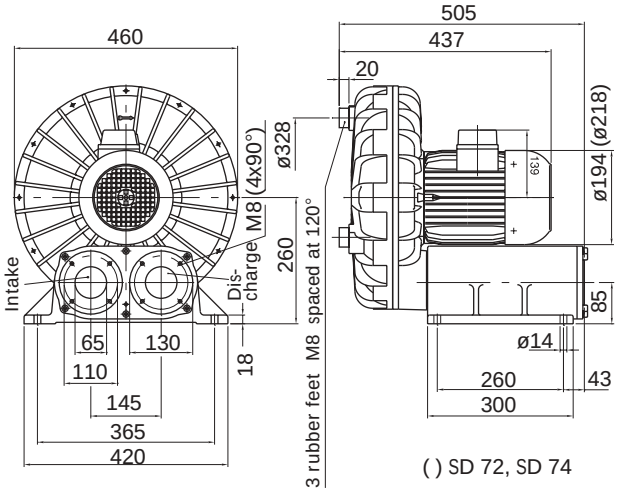
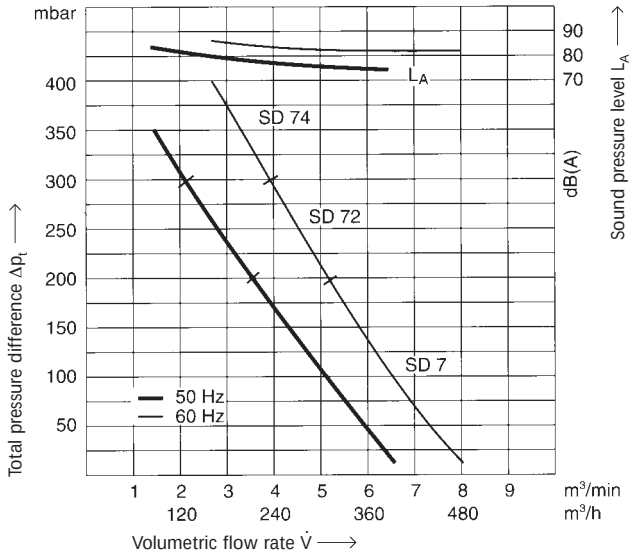
SD 7, SD 72, SD 74



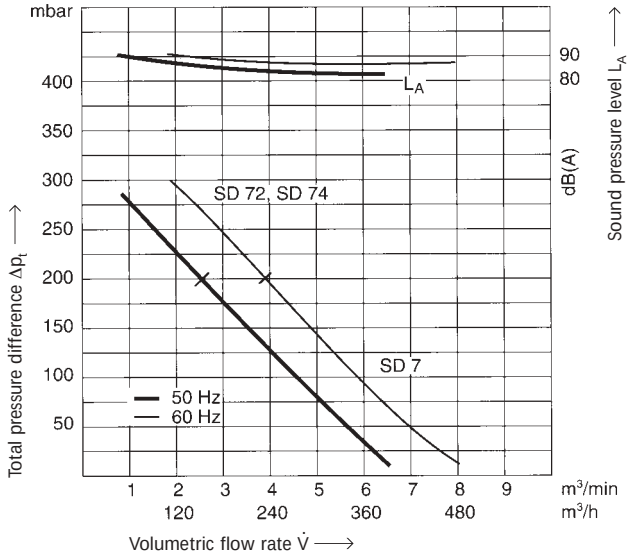
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 7	50	6,5	200	6,5	200	2,9	230/400	10,4/6,0	2860	51,5
SD 7	60	8,0	200	8,0	200	3,8	277/480	11,8/6,8	3450	51,5
SD 72	50	6,5	300	6,5	280	4,0	400Δ	8,7	2900	58,5
SD 72	60	8,0	300	8,0	300	5,2	480Δ	8,9	3480	58,5
SD 74	50	6,5	350	6,5	280	4,5	400Δ	9,5	2930	62,5
SD 74	60	8,0	400	8,0	300	6,5	480Δ	11,0	3500	62,5

Pressure



Vacuum



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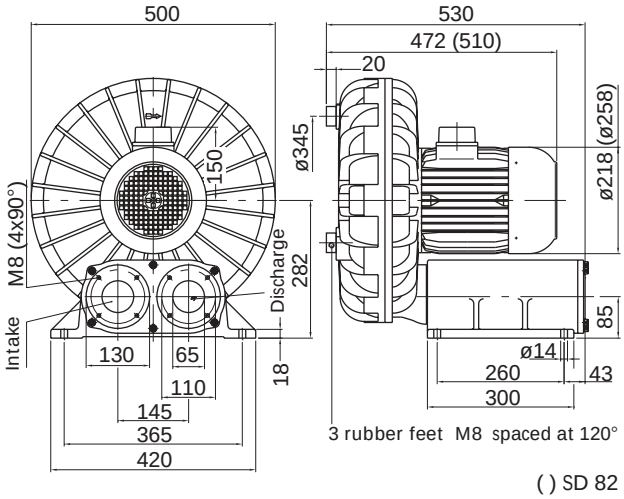
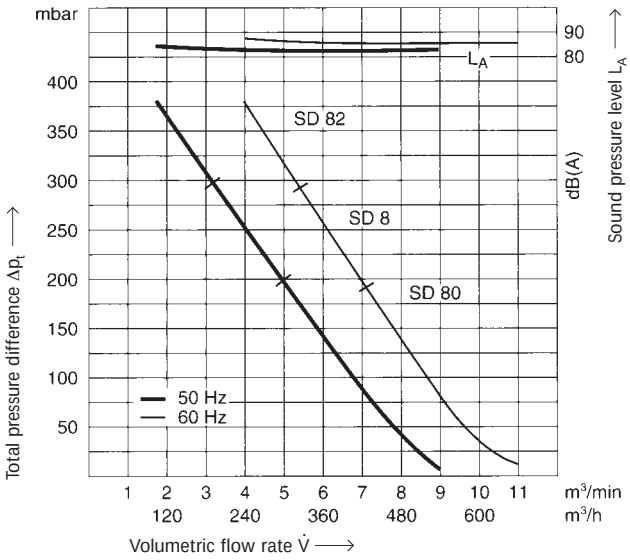
SD 80, SD 8, SD 82



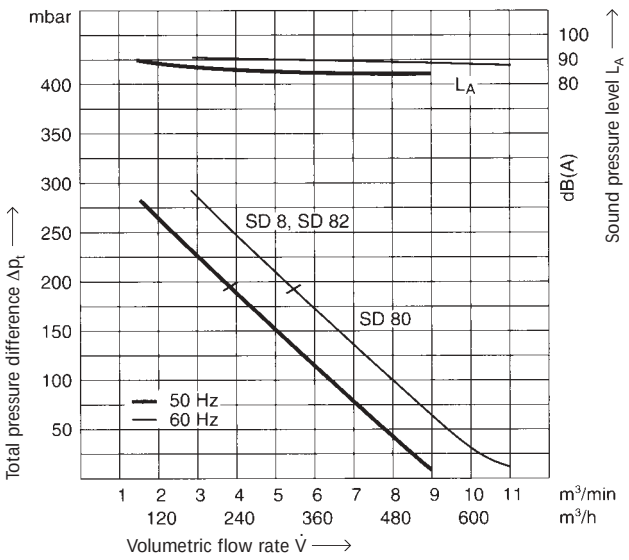
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		V̇ max.	Δp$_t$ max.	V̇ max.	Δp$_t$ max.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min^{-1}	kg
SD 80	50	9,0	200	9,0	200	4,0	400Δ	9,0	2900	71,0
SD 80	60	11,0	190	11,0	190	5,2	480Δ	8,9	3480	71,0
SD 8	50	9,0	300	9,0	280	5,5	400Δ	11,0	2910	75,0
SD 8	60	11,0	290	11,0	290	7,0	480Δ	11,5	3490	75,0
SD 82	50	9,0	380	9,0	280	6,5	400Δ	13,0	2920	87,5
SD 82	60	11,0	380	11,0	290	8,0	480Δ	13,3	3520	87,5

Pressure



Vacuum



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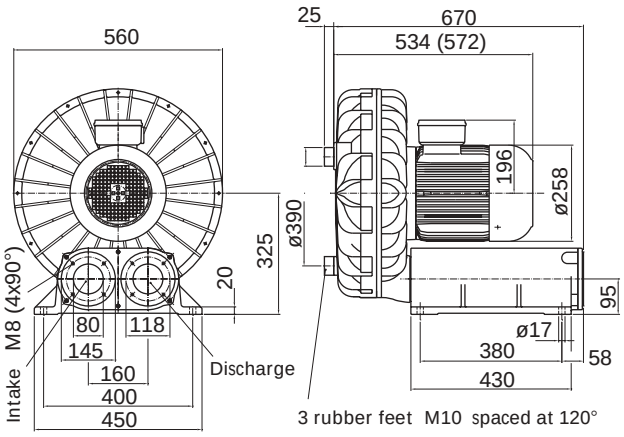
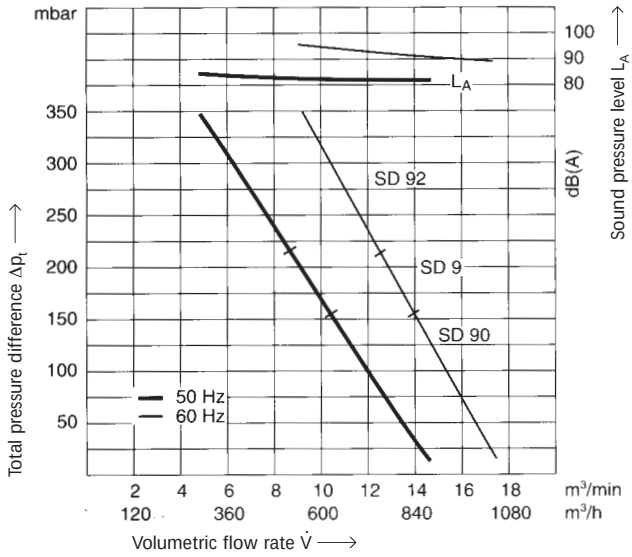
SD 90, SD 9, SD 92



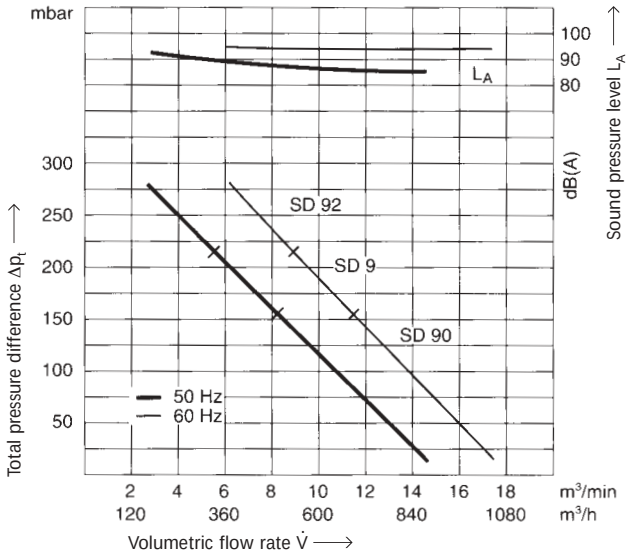
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 90	50	14,5	160	14,5	160	5,5	400Δ	11,8	2880	100,0
SD 90	60	17,5	160	17,5	160	7,5	480Δ	12,8	3460	100,0
SD 9	50	14,5	220	14,5	220	7,0	400Δ	14,5	2890	104,0
SD 9	60	17,5	220	17,5	220	9,5	480Δ	16,0	3460	104,0
SD 92	50	14,5	350	14,5	280	10,5	400Δ	20,0	2930	116,0
SD 92	60	17,5	350	17,5	280	13,5	480Δ	22,0	3520	116,0

Pressure



Vacuum



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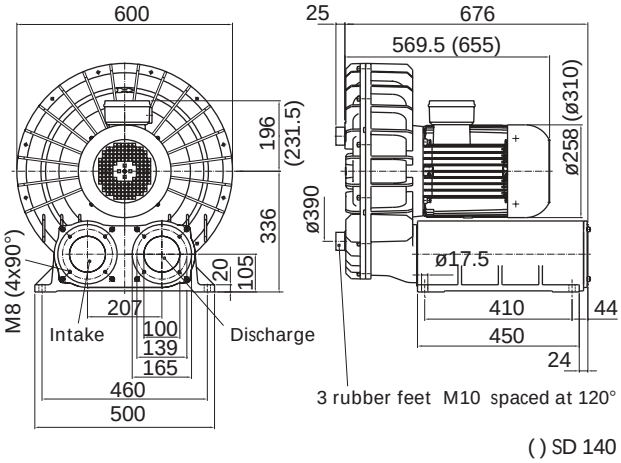
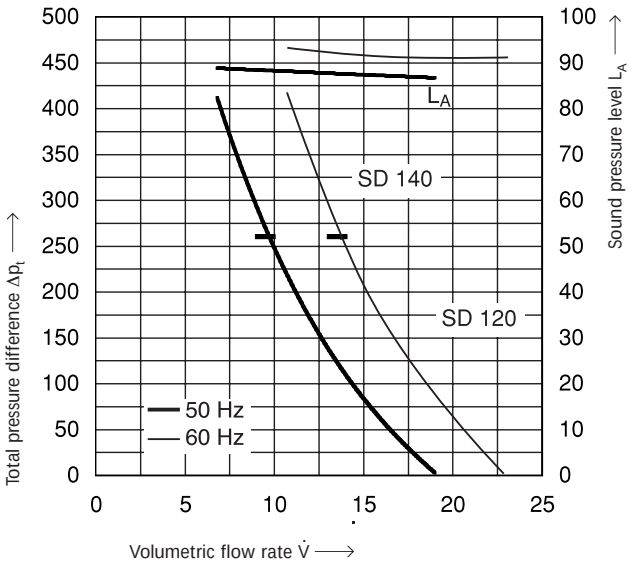
SD 120, SD 140



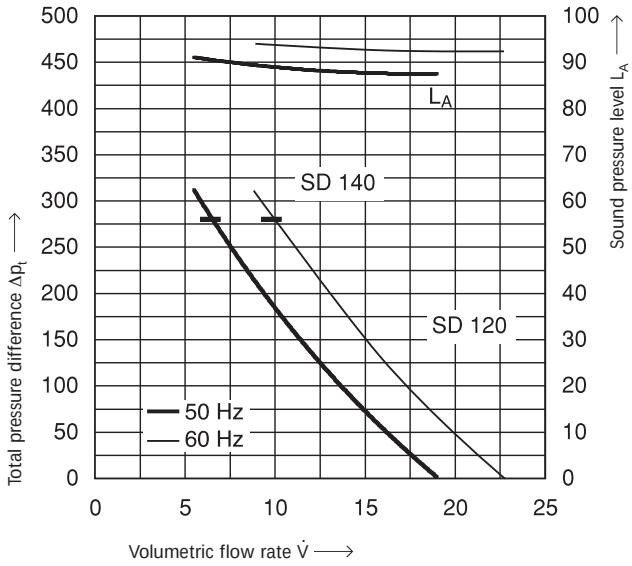
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 120	50	19	260	19	280	11,5	400Δ	23	2925	131,0
SD 120	60	23	260	23	280	15	480Δ	24,5	3515	131,0
SD 140	50	19	410	19	310	16,0	400Δ	32	2950	165,0
SD 140	60	23	410	23	310	20,0	480Δ	33	3525	165,0

Pressure



Vacuum



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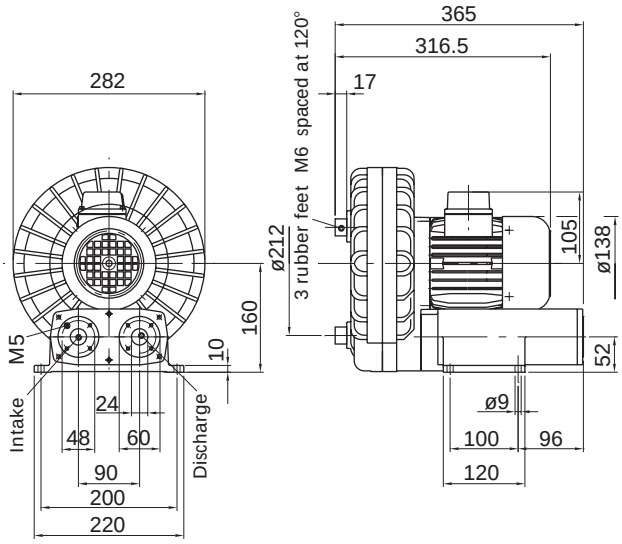
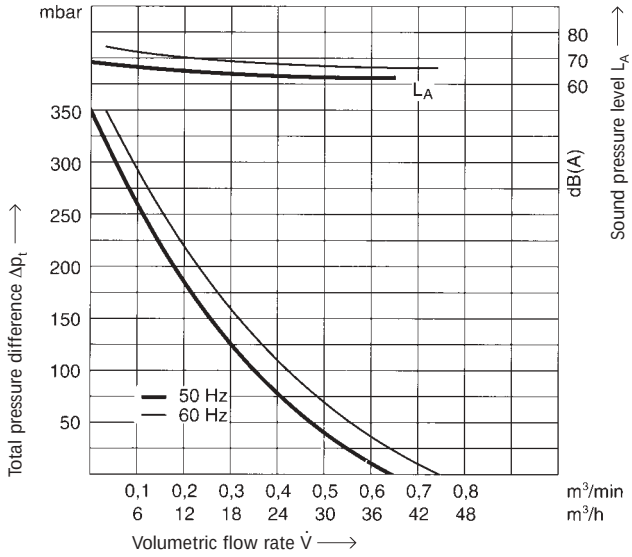
SD 3, SE 3



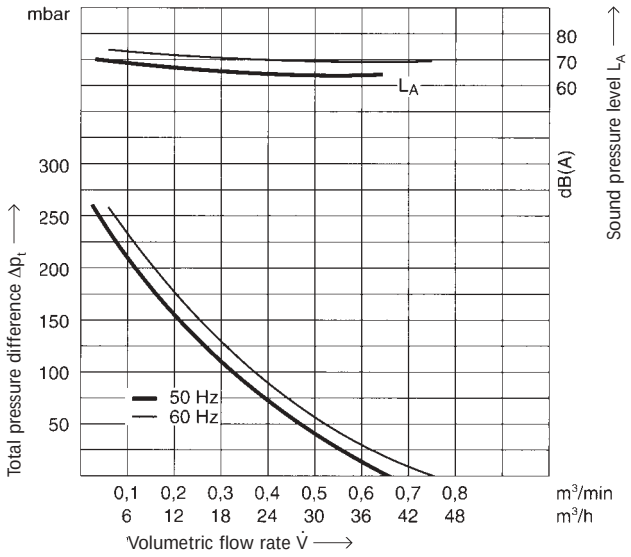
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Capacitor	Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	230 V	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	µF/V	kg
SD 3	50	0,65	350	0,65	260	0,55	230/400	3,1/1,8	2850	-	17,0
SD 3	60	0,75	350	0,75	260	0,55	277/480	2,75/1,6	3520	-	17,0
SE 3	50	0,65	350	0,65	260	0,55	230	3,8	2800	16/450	17,0
SE 3	60	0,75	350	0,75	260	0,55	230	4,0	3430	16/450	17,0

Pressure



Vacuum



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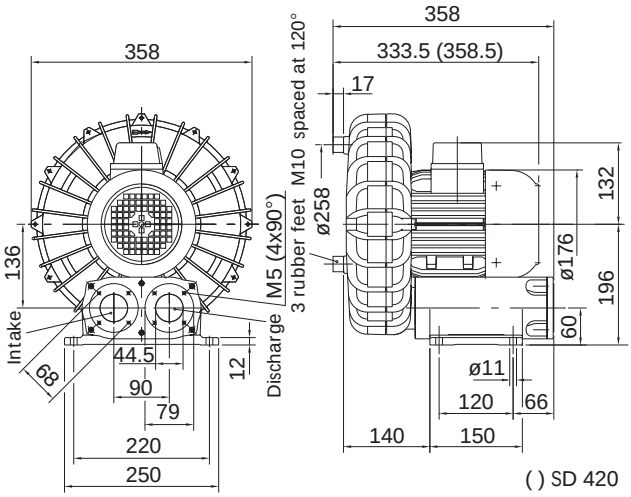
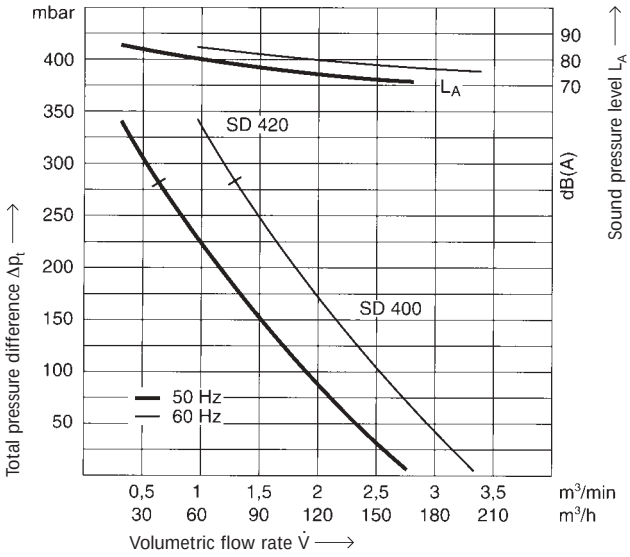
SD 400, SD 420



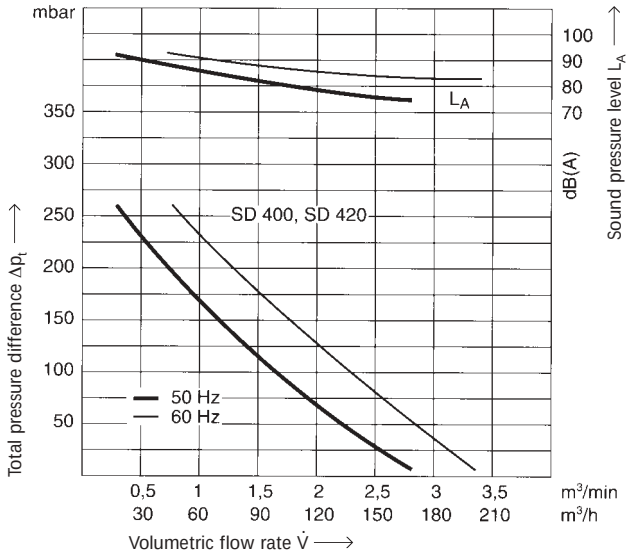
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 400	50	2,8	280	2,8	260	1,5	230/400	6,6/3,8	2860	24,0
SD 400	60	3,4	280	3,4	260	2,0	277/480	7,3/4,2	3480	24,0
SD 420	50	2,8	340	2,8	260	1,8	230/400	7,1/4,1	2900	26,5
SD 420	60	3,4	340	3,4	260	2,2	277/480	8,5/4,9	3480	26,5

Pressure



Vacuum



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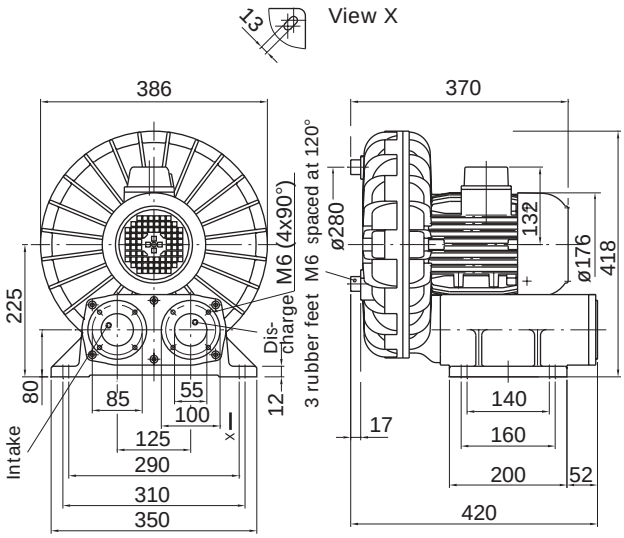
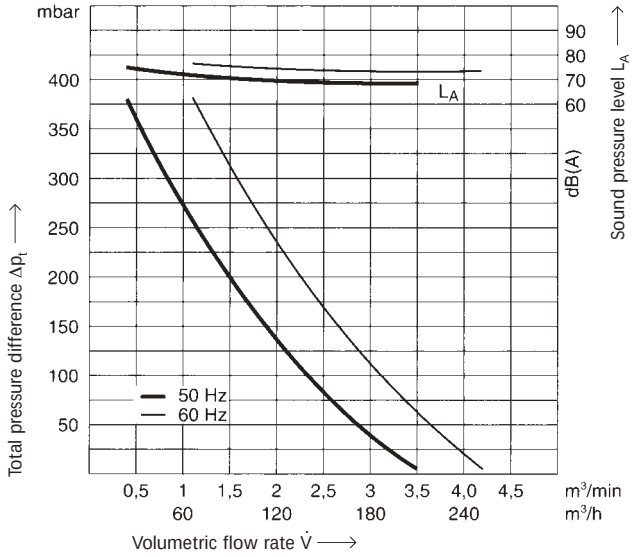
SD 540



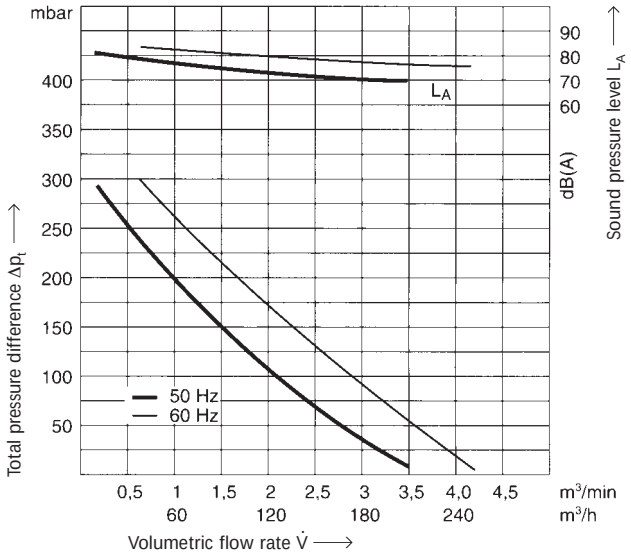
Dimensions in mm (subject to modifications)

Model		Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
	Frequency	$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 540	50	3,5	380	3,5	290	2,4	230/400	8,8/5,1	2850	34,5
SD 540	60	4,2	380	4,2	300	3,1	277/480	9,7/5,6	3440	34,5

Pressure



Vacuum



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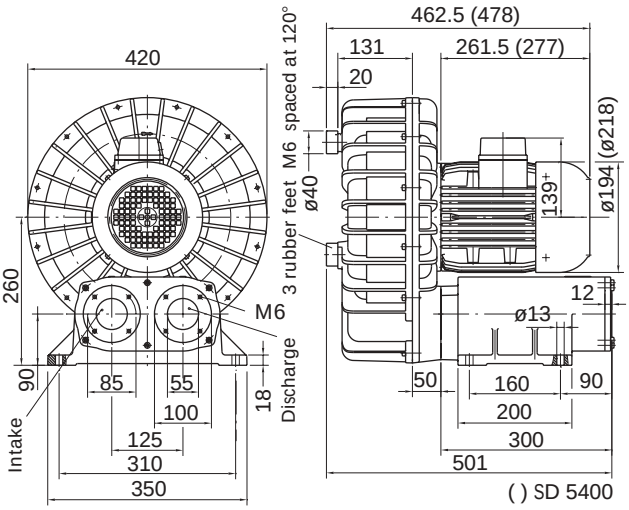
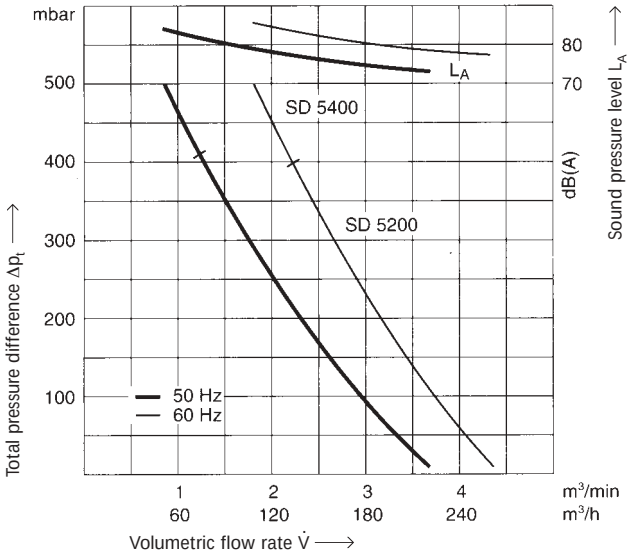
SD 5200, SD 5400



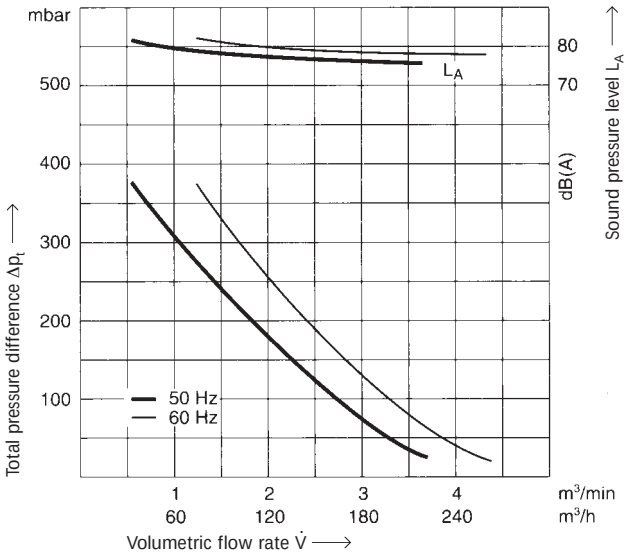
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 5200	50	3,7	420	3,7	370	3,0	230/400	10,9/6,3	2850	49
SD 5200	60	4,4	400	4,4	370	3,9	277/480	11,8/6,8	3430	49
SD 5400	50	3,7	500	3,7	370	3,7	400Δ	7,8	2925	56,5
SD 5400	60	4,4	500	4,4	370	4,7	480Δ	8,3	3500	56,5

Pressure



Vacuum



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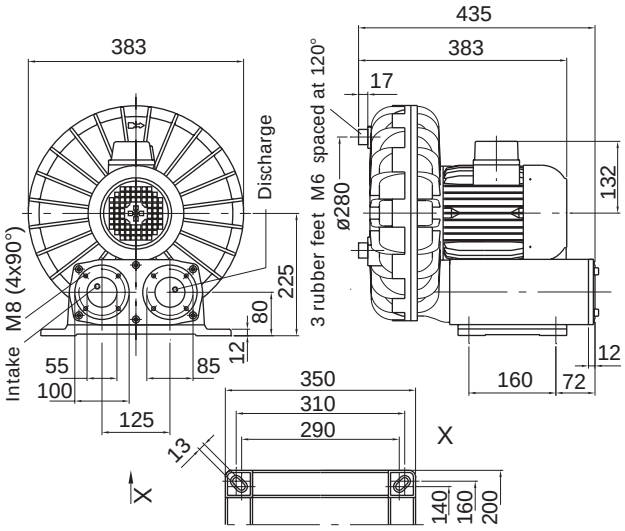
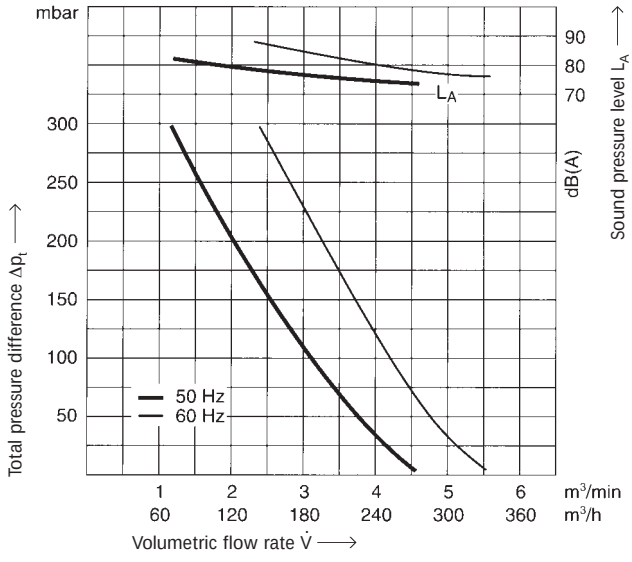
SD 600



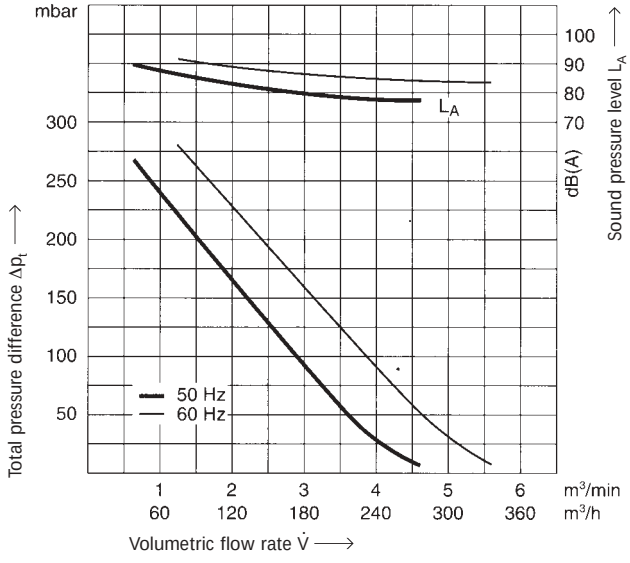
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 600	50	4,6	300	4,6	270	2,7	230/400	10,7/6,2	2820	35,5
SD 600	60	5,6	300	5,6	280	3,5	277/480	11,1/6,4	3420	35,5

Pressure



Vacuum



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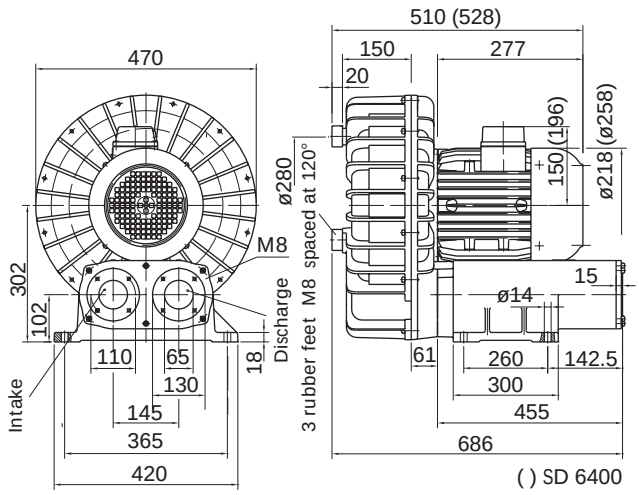
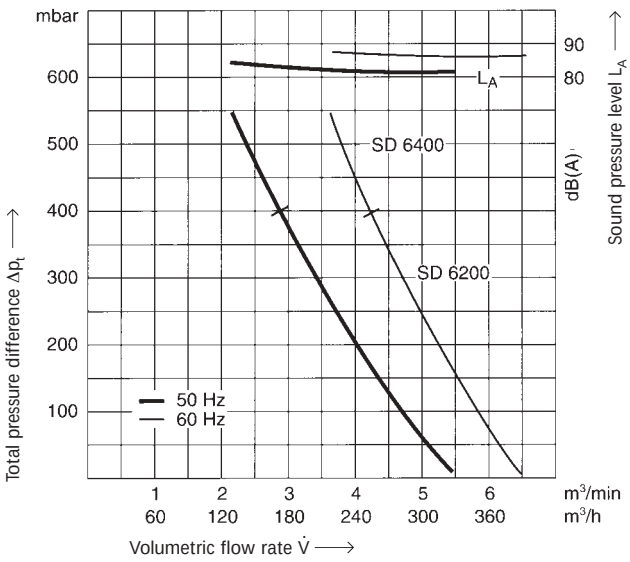
SD 6200, SD 6400



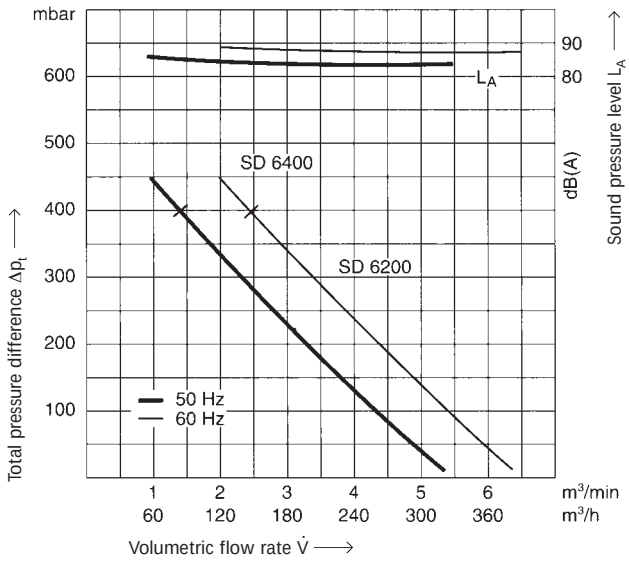
Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 6200	50	5,5	400	5,5	400	5,2	400Δ	10,5	2910	79,0
SD 6200	60	6,5	400	6,5	400	6,5	480Δ	11,0	3500	79,0
SD 6400	50	5,5	550	5,5	450	6,5	400Δ	13,0	2920	90,0
SD 6400	60	6,5	550	6,5	450	8,0	480Δ	13,3	3520	90,0

Pressure



Vacuum



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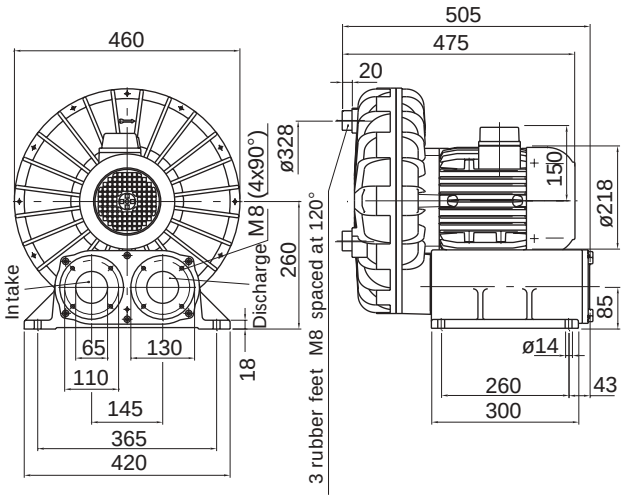
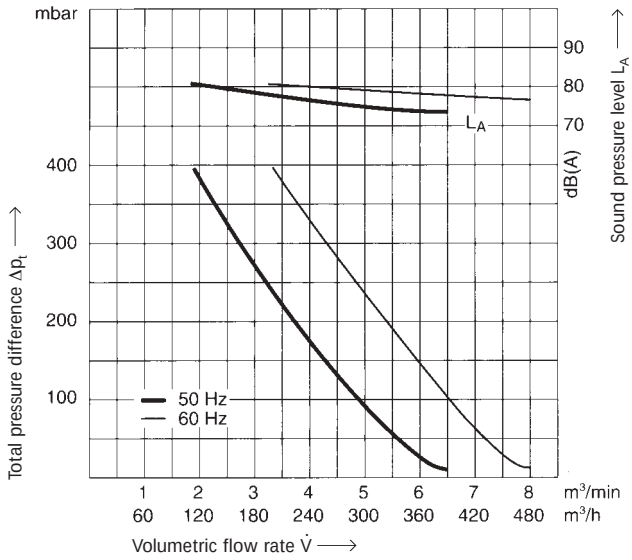
SD 740



Dimensions in mm (subject to modifications)

Model		Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
	Frequency	$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 740	50	6,5	400	6,5	300	5,5	400Δ	11,0	2910	66,0
SD 740	60	8,0	400	8,0	300	7,0	480Δ	11,5	3490	66,0

Pressure



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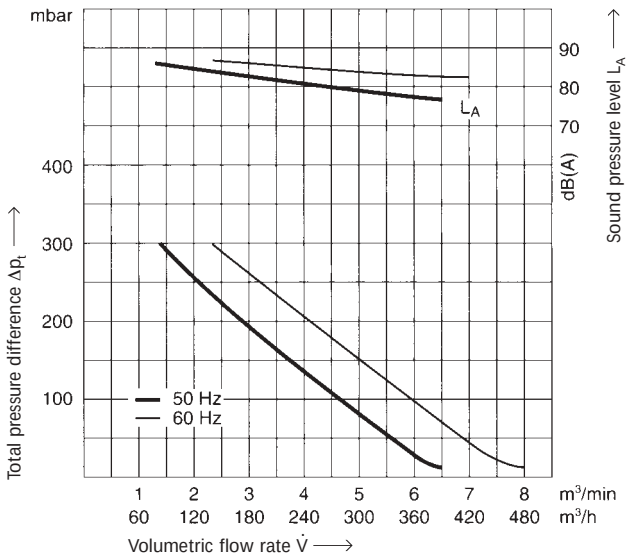

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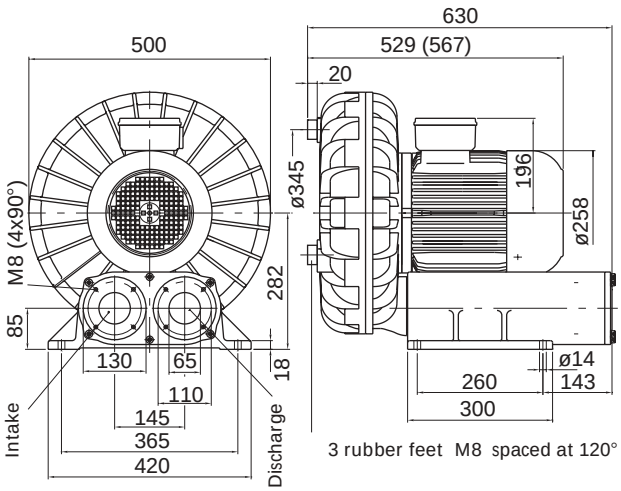
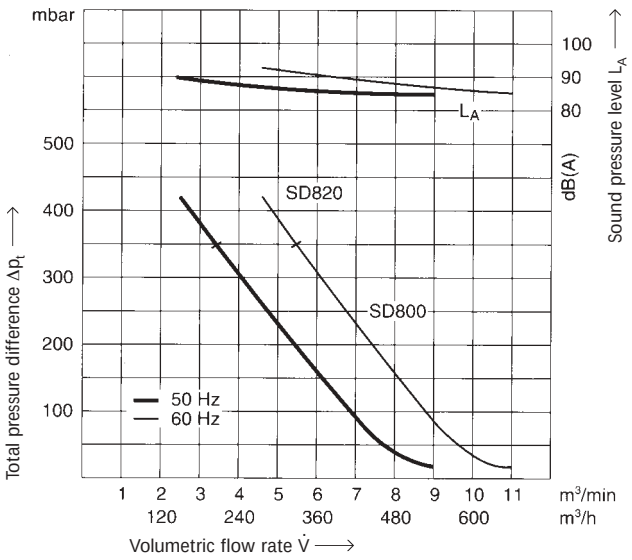
SD 800, SD 820



Dimensions in mm (subject to modifications)

Model	Frequency	Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
		$\dot{V}$ max.	Δp_t max.	$\dot{V}$ max.	Δp_t max.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 800	50	9,0	350	9,0	320	6,0	400Δ	13,0	2920	92,5
SD 800	60	11,0	350	11,0	320	8,0	480Δ	13,3	3520	92,5
SD 820	50	9,0	420	9,0	320	7,5	400Δ	17,0	2950	106
SD 820	60	11,0	420	11,0	320	9,5	480Δ	17,5	3550	106

Pressure



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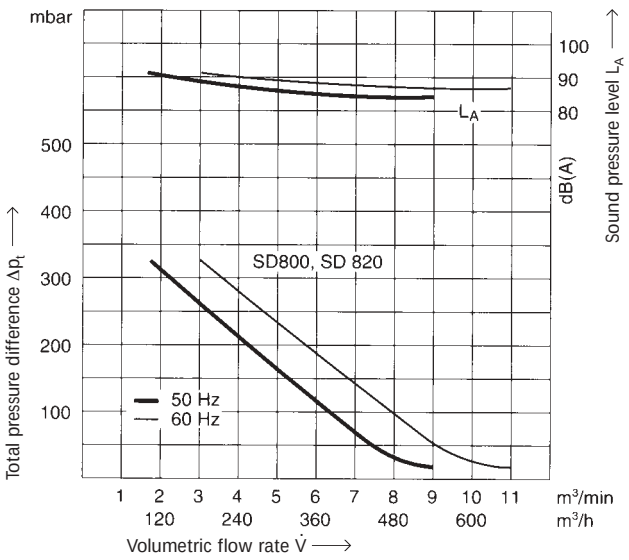

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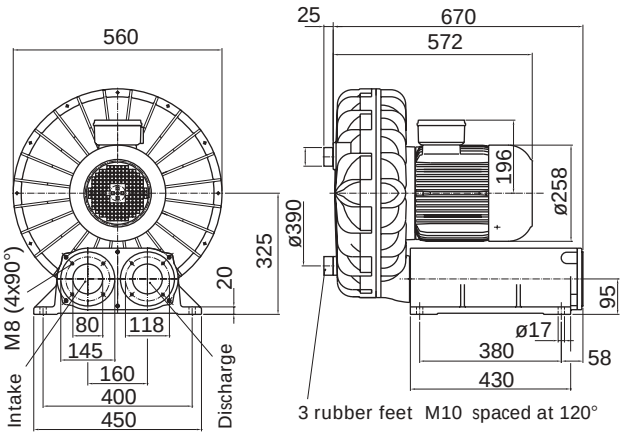
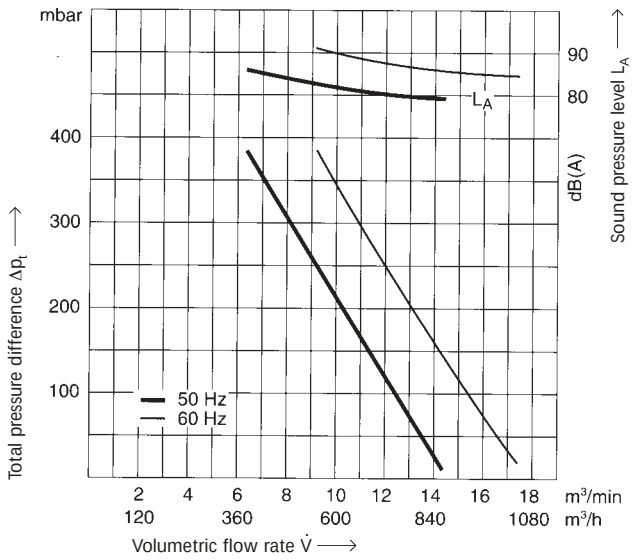
SD 900



Dimensions in mm (subject to modifications)

Model		Maximum performance when used as blower		Maximum performance when used as extractor		Motor ratings				Weight
	Frequency	$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.	Rated output	Voltage	Current	RPM	
	Hz	m³/min	mbar	m³/min	mbar	kW	V	Amp.	min⁻¹	kg
SD 900	50	14,5	380	14,5	320	13,0	400Δ	24,5	2910	120
SD 900	60	17,5	380	17,5	320	15,0	480Δ	24,0	3500	120

Pressure



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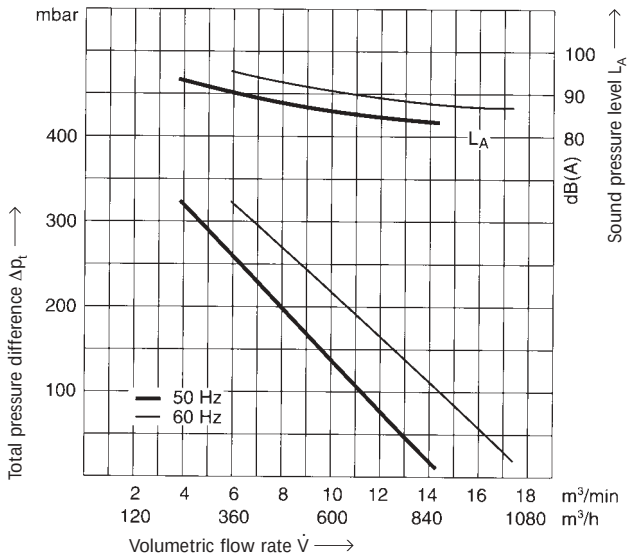

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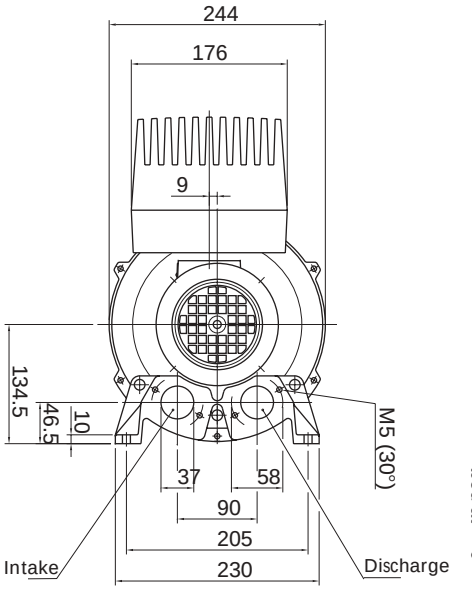
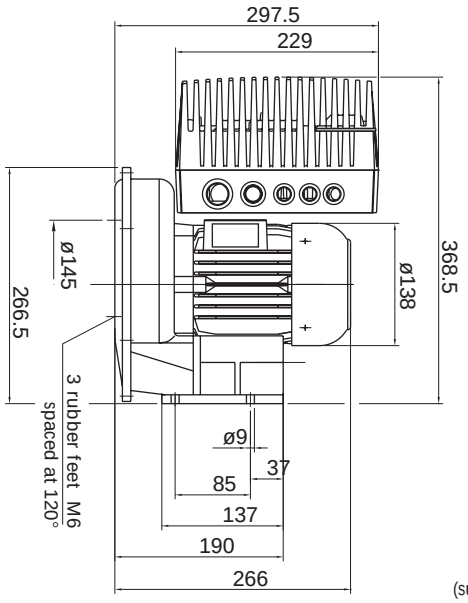
SD 22 FU/FUK

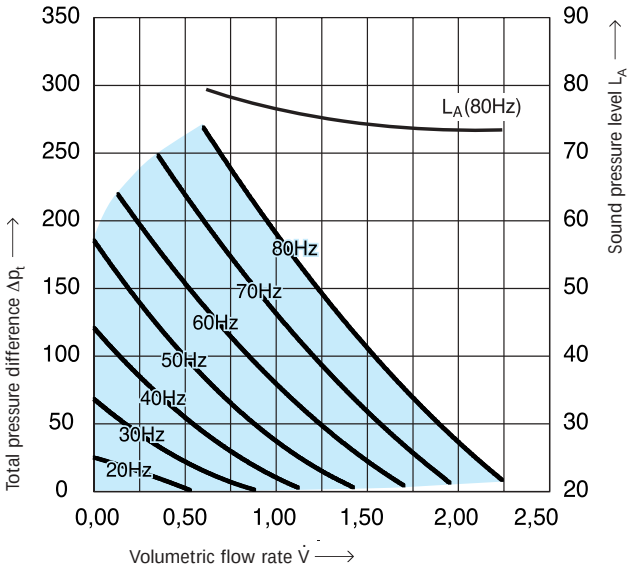




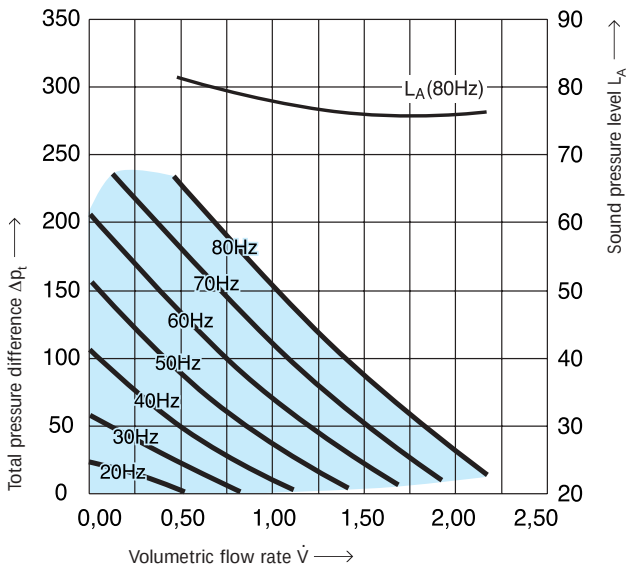
Dimensions in mm
(subject to modifications)

Model		Volu-metric flow	Total pressure difference	Voltage	Frequency	Current	RPM max.	Motor power	Weight
		m³/min	mbar	V	Hz	Amp.	1/min	kW	kg
SD 22 FUK-80/1,1 SD 22 FU-80/1,1	Intake	2,2	270	400	80	3,4	4400	1,1	14
	Discharge	2,2	230	400	80	3,2	4450	1,1	14

Pressure



Vacuum



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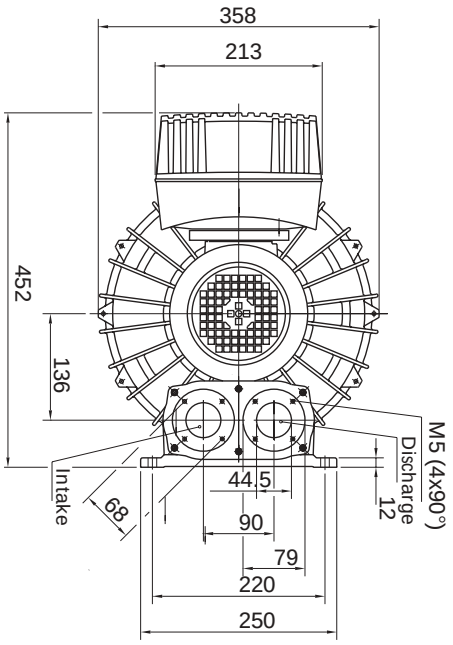
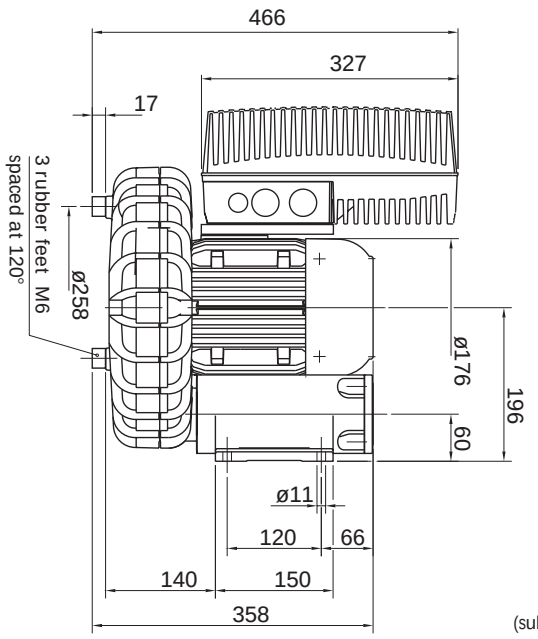
SD 4n FU/FUK

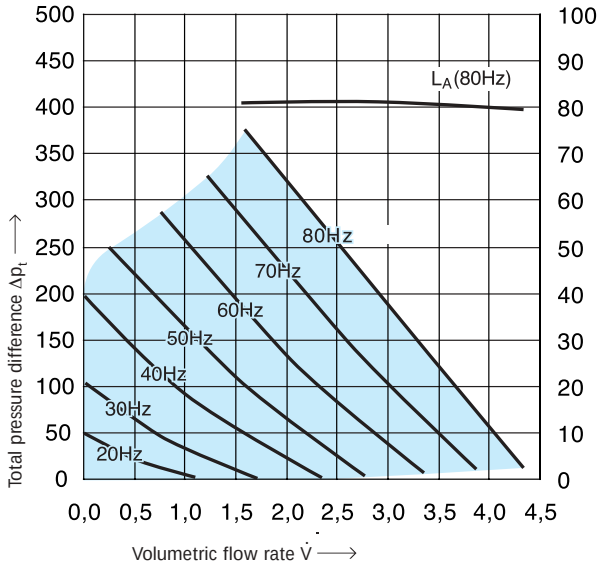




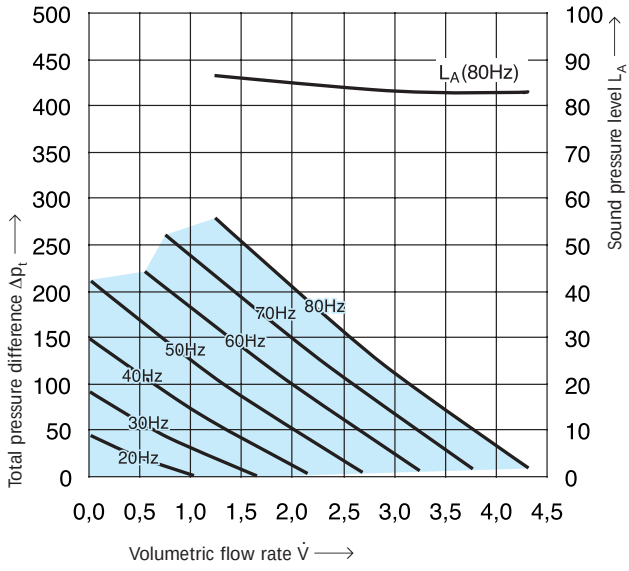
Dimensions in mm
(subject to modifications)

Model		Volu-metric flow	Total pressure difference	Voltage	Frequency	Current	RPM max.	Motor power	Weight
		m³/min	mbar	V	Hz	Amp.	1/min	kW	kg
SD 4n FUK-80/4,0 SD 4n FU-80/4,0	Intake	4,3	370	400	80	9	4670	4,0	27
	Discharge	4,3	280	400	80	9	4670	4,0	27

Pressure



Vacuum



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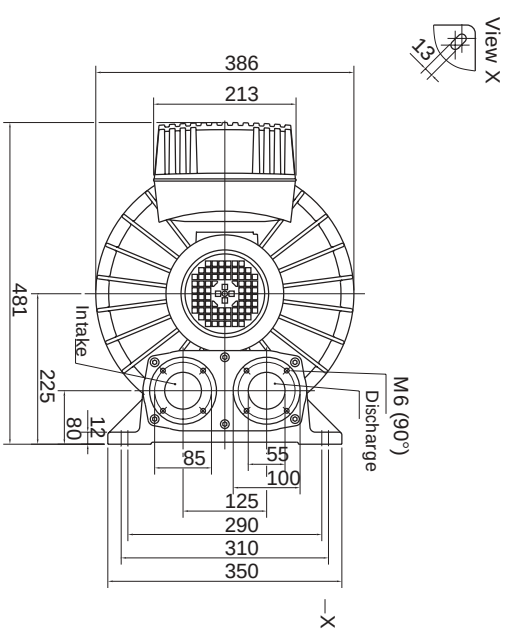
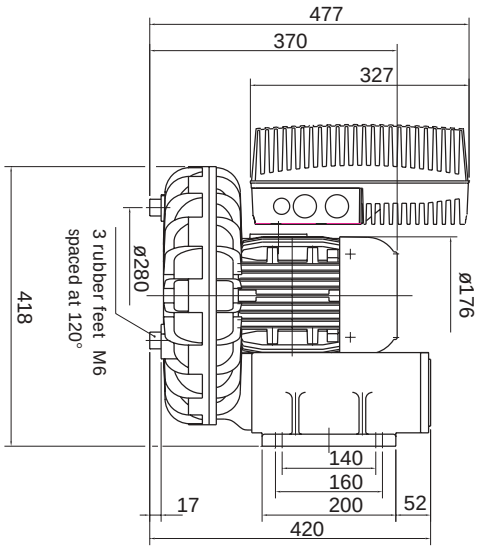
SD 5 FU/FUK

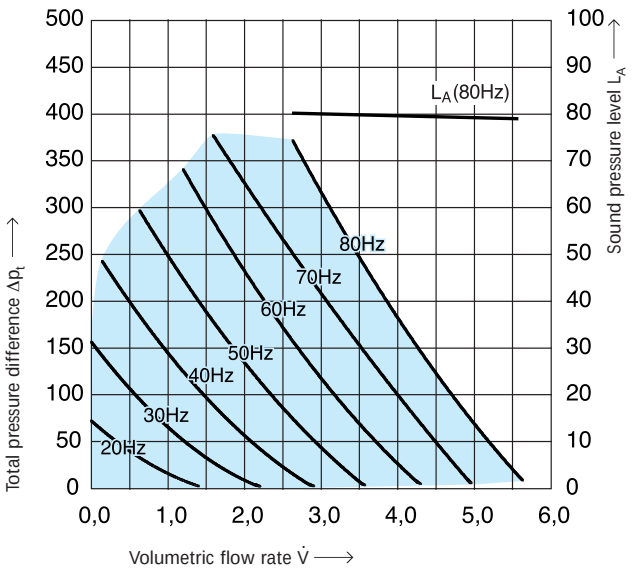




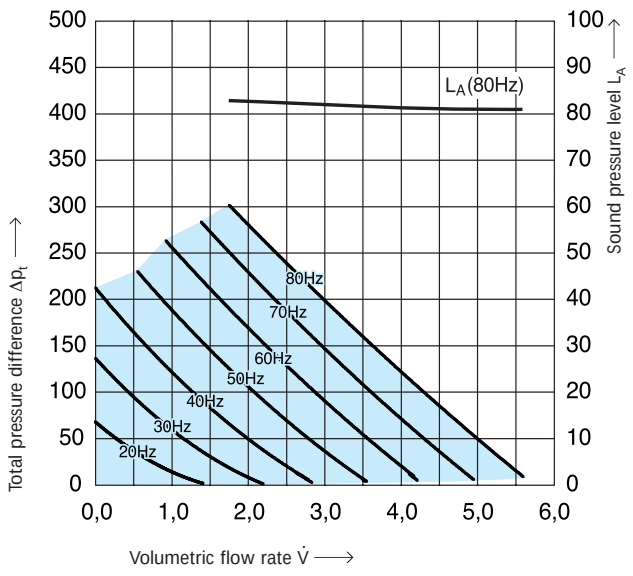
Dimensions in mm
(subject to modifications)

Model		Volu-metric flow	Total pressure difference	Voltage	Frequency	Current	RPM max.	Motor power	Weight
		m³/min	mbar	V	Hz	Amp.	1/min	kW	kg
SD 5 FUK-80/4,4 SD 5 FU-80/4,4	Intake	5,6	370	400	80	9,7	4600	4,4	37
	Discharge	5,6	300	400	80	9,7	4600	4,4	37

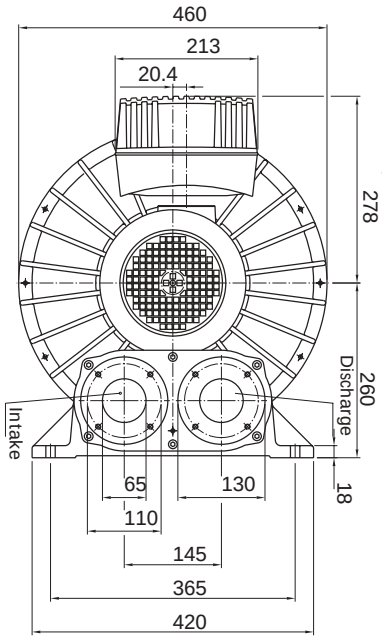
Pressure

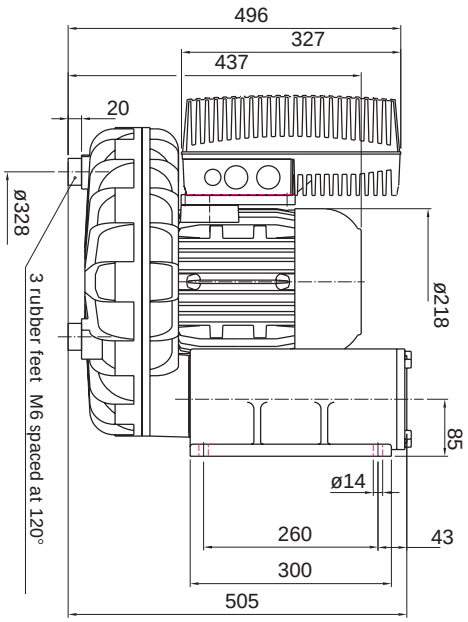


Vacuum



SD 7 FU/FUK

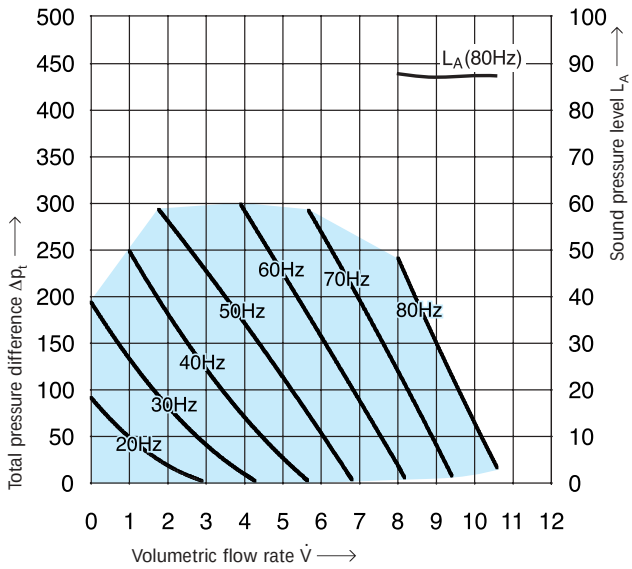




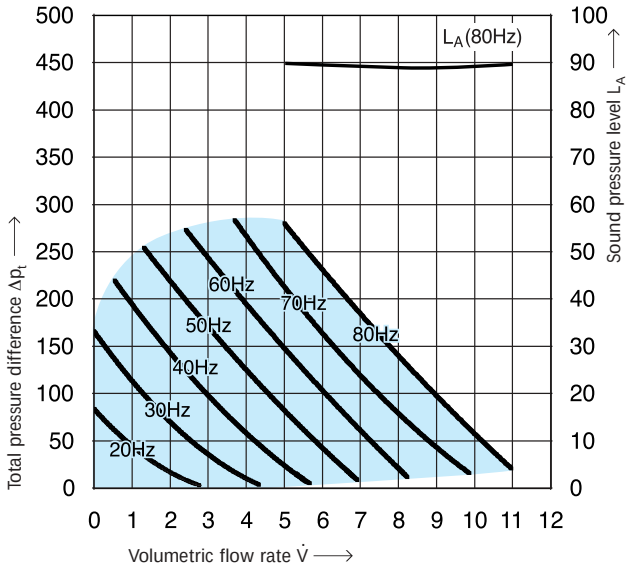
Dimensions in mm
(subject to modifications)

Model		Volu-metric flow	Total pressure difference	Voltage	Frequency	Current	RPM max.	Motor power	Weight
		m³/min	mbar	V	Hz	Amp.	1/min	kW	kg
SD 7 FUK-80/7,5 SD 7 FU-80/7,5	Intake	10,5	240	400	80	17	4730	7,5	66
	Discharge	11	280	400	80	17	4730	7,5	66

Pressure



Vacuum



Elektror

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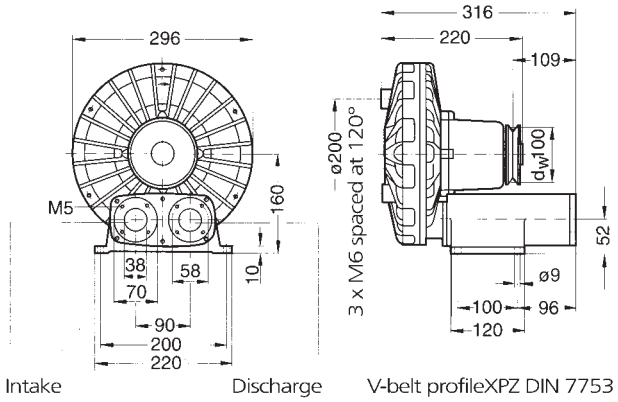
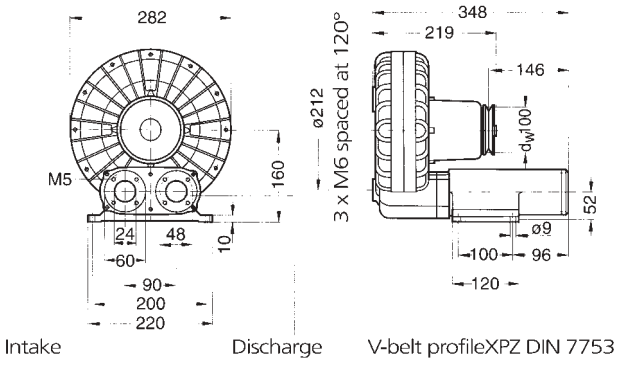
SD 2n-1, SD 3-1



Dimensions in mm
(subject to modifications)

Characteristic curves see SD 2n, 60 Hz

Model	Maximum performance when used as blower		Maximum performance when used as extractor		Power consumption at maximum RPM	RPM max.	Weight
	$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.			
	m³/min	mbar	m³/min	mbar	kW	min⁻¹	kg
SD 2n-1	1,55	210	1,55	180	0,65	3430	10,5
SD 3-1	0,75	350	0,75	260	0,55	3520	10,5



Dimensions in mm
(subject to modifications)

Characteristic curves see SD 3, 60 Hz

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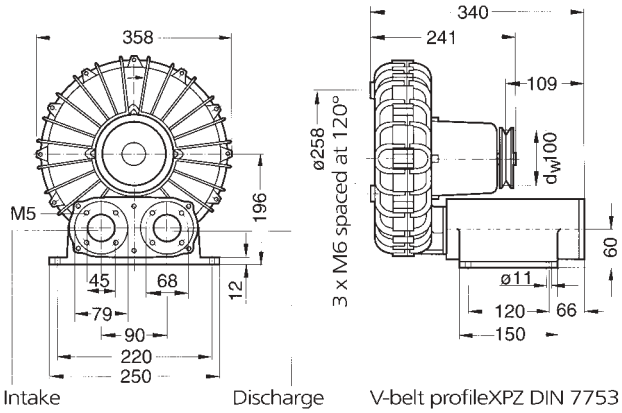
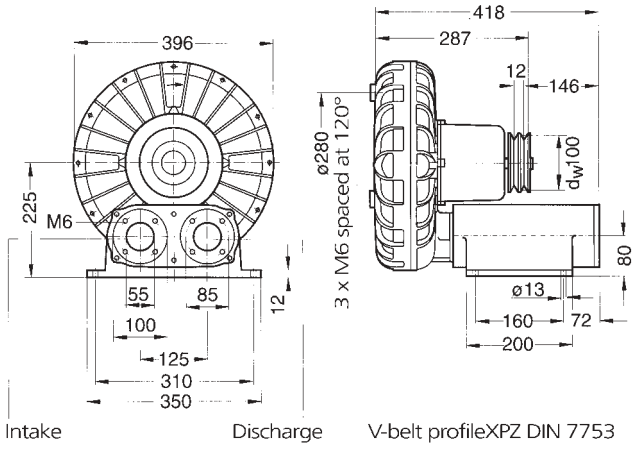
SD 4n-1, SD 6-1



Dimensions in mm
(subject to modifications)

Characteristic curves see SD 4n, 60 Hz

Model	Maximum performance when used as blower		Maximum performance when used as extractor		Power consumption at maximum RPM	RPM max.	Weight
	$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.			
	m³/min	mbar	m³/min	mbar	kW	min⁻¹	kg
SD 4n-1	3,4	240	3,4	240	1,6	3400	13,7
SD 6-1	5,6	300	5,6	260	3,1	3440	23,5



Dimensions in mm
(subject to modifications)

Characteristic curves see SD 6, 60 Hz

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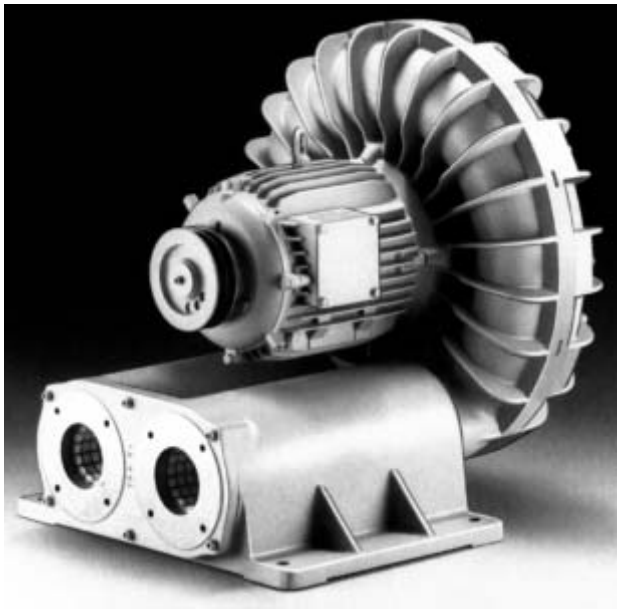
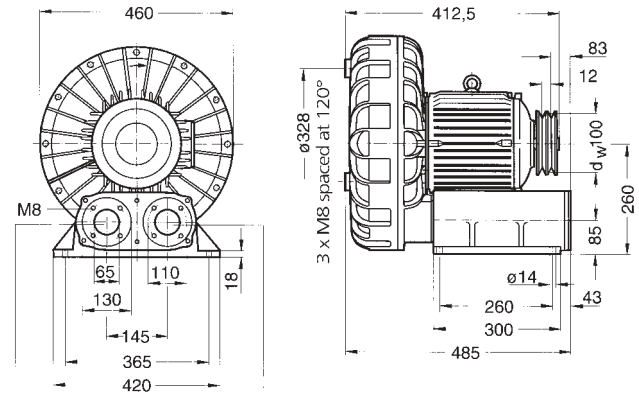
SD 7-1, SD 8-1

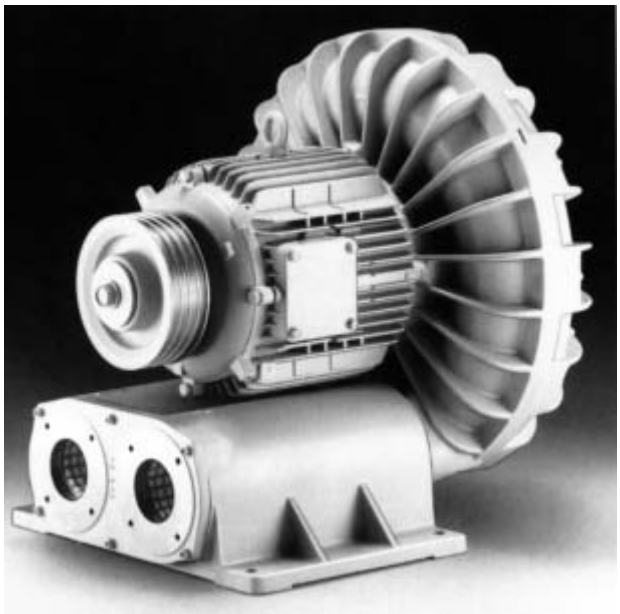


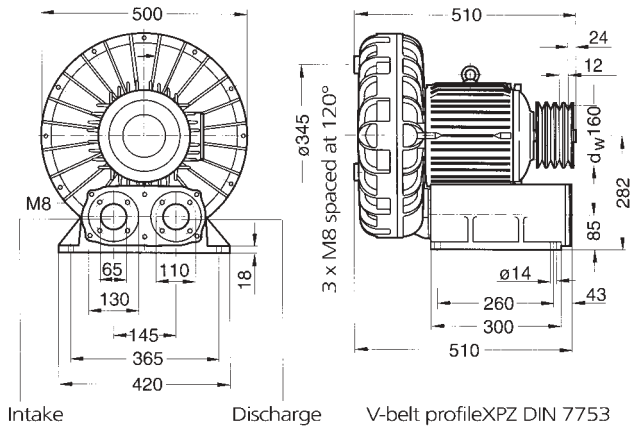


Dimensions in mm
(subject to modifications)

Characteristic curves see SD 74, 60 Hz

Model	Maximum performance when used as blower		Maximum performance when used as extractor		Power consumption at maximum RPM	RPM max.	Weight
	$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.			
	m³/min	mbar	m³/min	mbar	kW	min⁻¹	kg
SD 7-1	8,0	400	8,0	300	6,5	3500	41,0
SD 8-1	11,0	380	11,0	290	8,0	3520	59,0

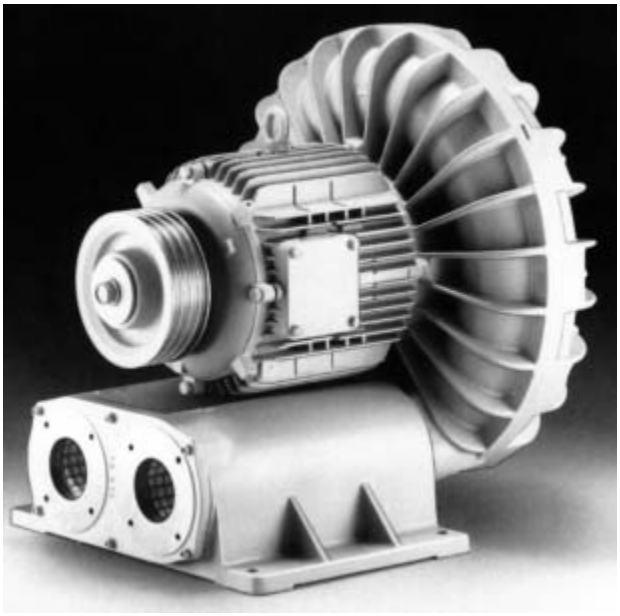


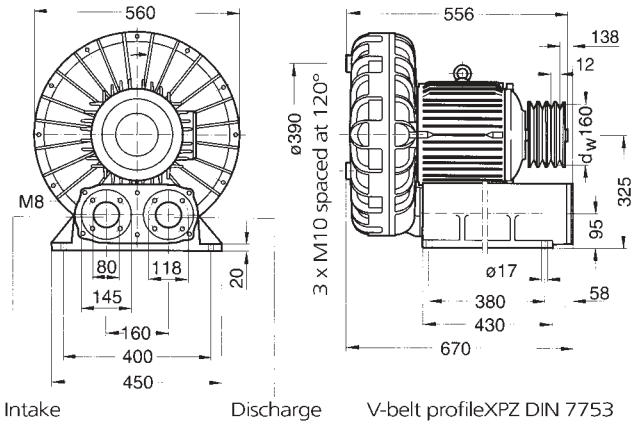


Dimensions in mm
(subject to modifications)

Characteristic curves see SD 82, 60 Hz

SD 9-1





Dimensions in mm
(subject to modifications)

Characteristic curves see SD 92, 60 Hz

Model	Maximum performance when used as blower		Maximum performance when used as extractor		Power consumption at maximum RPM	RPM max.	Weight
	$\dot{V}$max.	Δp_tmax.	$\dot{V}$max.	Δp_tmax.			
	m³/min	mbar	m³/min	mbar	kW	min⁻¹	kg
SD 9-1	17,5	350	17,5	280	13,5	3520	76,0

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Reversing units RA

Blower/ reversing unit combination		Voltage	Current	Frequency	Switch-over time		Weight	Item No.
					Reversing	Impulse or neutral		
Model	Model	V	A	Hz	s	s	kg	
SD 24 SD 4n SD 42 SD 400 SD 420	RA 4	200-240	0,041	50/60	0,7	-	4,3	100513
	RA 4 D	200-240	0,041	50/60	-	0,35	4,3	100696
	RAZ 4 S	200-240	0,041	50/60	-	0,35	4,3	100697
	RAZ 4	200-240	0,041	50/60	0,7	0,35	4,3	100651
	RAGZ 4	200-240	0,041	50/60	0,7	0,35	4,3	100376
	RA 4/1	200-240	0,041	50/60	0,7		4,2	100514
	RA 4/1 D	200-240	0,041	50/60	-	0,35	4,2	100698
	RA 4/1 S	200-240	0,041	50/60	-	0,35	4,2	100699
	RAZ 4/1	200-240	0,041	50/60	0,7	0,35	4,2	100652
	RAGZ 4/1	200-240	0,041	50/60	0,7	0,35	4,2	100378
SD 5 SD 52 SD 54 SD 540 SD 5200 SD 5400 SD 6 SD 62 SD 64 SD 600	RA 6	200-240	0,041	50/60	0,7	-	5,9	100515
	RA 6 D	200-240	0,041	50/60	-	0,35	5,9	100700
	RA 6 S	200-240	0,041	50/60	-	0,35	5,9	100701
	RAZ 6	200-240	0,041	50/60	0,7	0,35	5,9	100653
	RAGZ 6	200-240	0,041	50/60	0,7	0,35	5,9	100380
	RA 6/1	200-240	0,041	50/60	0,7	-	5,7	100516
	RA 6/1 D	200-240	0,041	50/60	-	0,35	5,7	100702
	RA 6/1 S	200-240	0,041	50/60	-	0,35	5,7	100703
	RAZ 6/1	200-240	0,041	50/60	0,7	0,35	5,7	100654
	RAGZ 6/1	200-240	0,041	50/60	0,7	0,35	5,7	100441
SD 6200 SD 6400 SD 7 SD 72 SD 74 SD 740 SD 80 SD 8 SD 82 SD 800 SD 820	RA 8	200-240	0,1	50/60	0,7	-	8,7	100585
	RA 8 D	200-240	0,1	50/60	-	0,35	8,7	100704
	RA 8 S	200-240	0,1	50/60	-	0,35	8,7	100705
	RAZ 8	200-240	0,1	50/60	0,7	0,35	8,7	100706
	RAGZ 8	200-240	0,1	50/60	0,7	0,35	8,7	100385
	RA 8/1	200-240	0,1	50/60	0,7	-	8,3	100586
	RA 8/1 D	200-240	0,1	50/60	-	0,35	8,3	100707
	RA 81/ S	200-240	0,1	50/60	-	0,35	8,3	100708
	RAZ 8/1	200-240	0,1	50/60	0,7	0,35	8,3	100709
	RAGZ 8/1	200-240	0,1	50/60	0,7	0,35	8,3	100386
SD 90 SD 9 SD 92 SD 900	RA 9	200-240	0,33	50/60	0,7	-	11,4	101379
	RA 9 D	200-240	0,33	50/60	-	0,35	11,4	100009
	RA 9 S	200-240	0,33	50/60	-	0,35	11,4	100387
	RAZ 9	200-240	0,33	50/60	0,7	0,35	11,4	100381
	RAGZ 9	200-240	0,33	50/60	0,7	0,35	11,4	100382
	RA 9/1	200-240	0,33	50/60	0,7	-	11,1	100379
	RA 9/1 D	200-240	0,33	50/60	-	0,35	11,1	100010
	RA 9/1 S	200-240	0,33	50/60	-	0,35	11,1	100388
	RAZ 9/1	200-240	0,33	50/60	0,7	0,35	11,1	100383
	RAGZ 9/1	200-240	0,33	50/60	0,7	0,35	11,1	100384

Dimensions in mm (subject to modifications)

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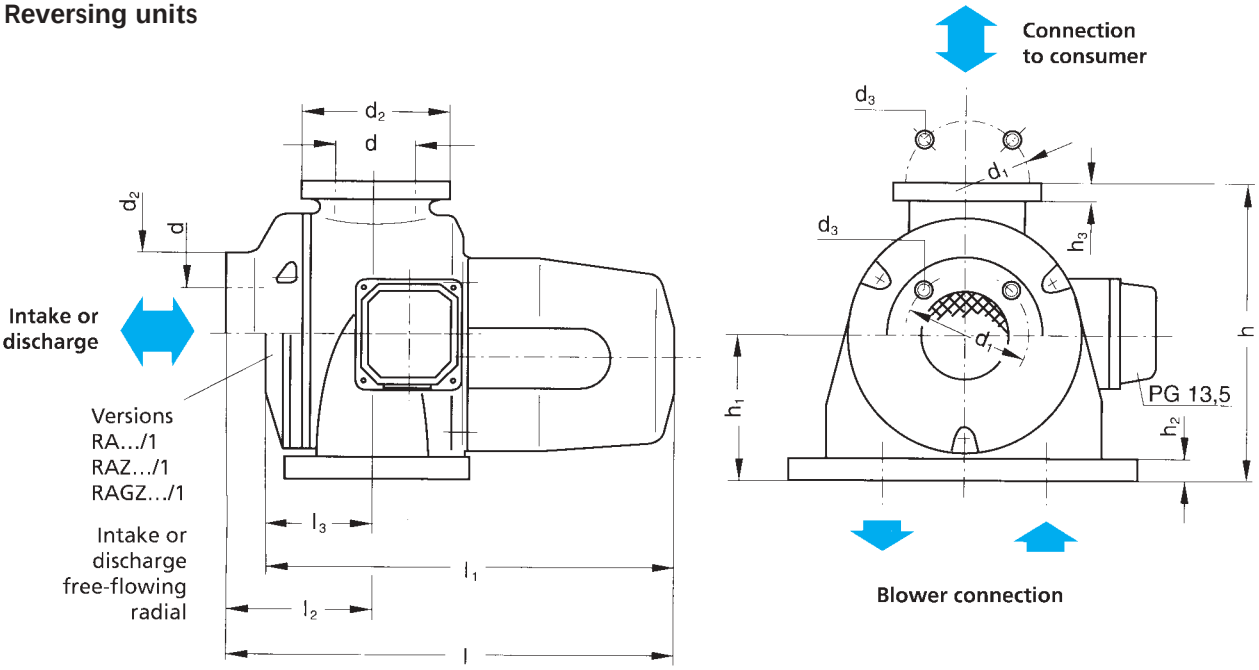
Reversing units



Model	l	l_1	l_2	l_3	d	d_1	d_2	d_3	h	h_1	h_2	h_3
RA 4 bis RAGZ 4	267	-	80	-	45	68	80	M5	160	80	12	10
RA 4/1 bis RAGZ 4/1	-	245	-	58	45	68	80	M5	160	80	12	10
RA 6 bis RAGZ 6	294	-	95	-	55	85	100	M6	185	95	12	10
RA 6/1 bis RAGZ 6/1	-	270	-	71	55	85	100	M6	185	95	12	10
RA 8 bis RAGZ 8	372	-	104	-	65	110	130	M8	210	105	15	12
RA 8/1 bis RAGZ 8/1	-	348	-	80	65	110	130	M8	210	105	15	12
RA 9 bis RAGZ 9	405	-	120	-	80	118	145	M8	250	125	15	12
RA 9/1 bis RAGZ 9/1	-	375	-	90	80	118	145	M8	250	125	15	12

Dimensions in mm (subject to modifications)

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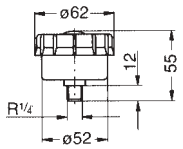
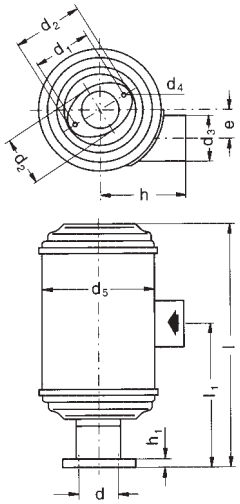
Fein filters with connector

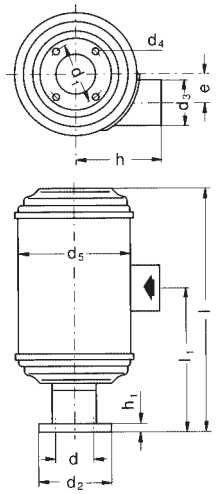
SD 12,
SE 12,
SD 12 B



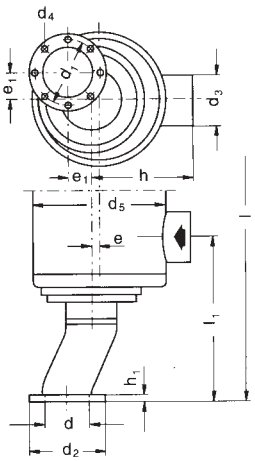
SD 20
SE 20
SD 22
SE 22



SD 2n –
SD 820



SD 90 –
SD 900
SD 120
SD 140



Model	l	l_1	d	d_1	d_2	d_3	d_4	d_5	e	e_1	h	h_1	Item No.
SD 12, SE 12 SD 12 B	Dimensions see illustration												001192
SD 20, SE 20	290	192	38	56	60/73	37	5,5	100	28	-	75	12	001506
SD 22, SE 22	290	192	37	58	50/70	37	5,5	100	28	-	75	12	001515
SD 2n, SE 2n SD 2n-1	231	130	38	58	70	37	5,5	100	28	-	75	6	000374
SD 3, SE 3 SD 3-1	251	153	24	48	60	37	5,5	100	28	-	75	6	000375
SD 24, SE 24 SD 4n, SE 4n SD 4n - 1 SD 42, SE 42 SD 400 SD 420	278	163	45	68	79	54	5,5	130	35	-	100	8	000377
SD 5, SE 5, SD 52, SD 54 SD 540, SD 5200 SD 5400 **SD 6, SD 6-1 SD 62, SD 64 SD 600**	348	195	55	85	100	62	7	150	40	-	120	10	000379
SD 6200 SD 6400 **SD 7, SD 7-1 SD 72, SD 74 SD 740** **SD 80, SD 8 SD 8-1 SD 82 SD 800 SD 820**	442	277	65	110	130	82	9	190	50	-	150	12	000440
SD 90, SD 9 SD 9-1 SD 92 SD 900	635	355	83	118	145	110	9	240	16	44	185	12	001267
SD 120 SD 140	778	493	100	139	165	132	9,5	270	16	51	210	8	007276

Space cartridge for fine filter

Model	Item No.
SD 12, SE 12	001261
SD 20, SE 20	000447
SD 22, SE 22	000447
SD 2n- SD 2n-1	000447
SD 3- SD 3-1	000447
SD 24- SD 420	000448
SD 5- SD 600	000449
SD 6200 - SD 820	000450
SD 90 - SD 900	001318
SD 120, SD 140	000516

Dimensions in mm (subject to modifications)

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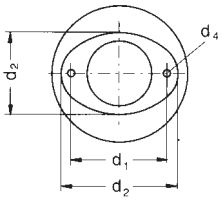
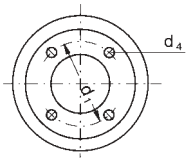
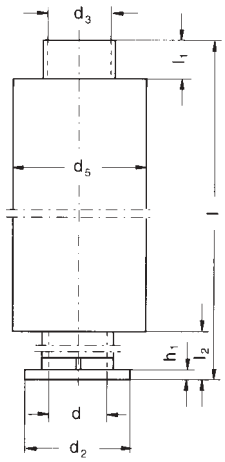
Silencers with connector

SD 22
SE 22



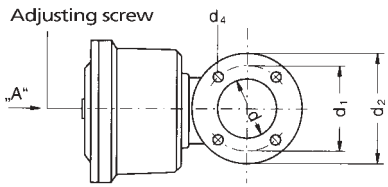
SD 2n –
SD 920
SD 120
SD 140

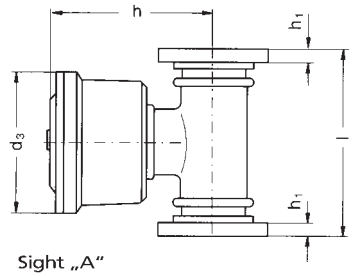


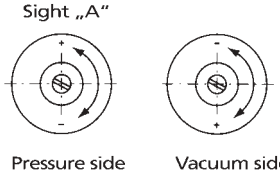


Model	l	l_1	l_2	d	d_1	d_2	d_3	d_4	d_5	h_1	Silencer Item No.	Connector Item No.
SD 20, SE 20	-	-	-	-	-	-	-	-	-	-	-	-
SD 22, SE 22	606	50	150	37	58	50/70	45	5,5	90	6	000826	001451
SD 2n, SE 2n SD 2n-1	606	50	150	38	58	70	45	5,5	90	6	000826	000114
SD 3, SE 3 SD 3-1	635	50	150	24	48	50	45	5,5	90	6	000826	004830
SD 24, SE 24 SD 4n, SE 4n SD 4n-1 SD 42, SE 42 SD 400, SD 420	608	50	150	45	68	79	55	5,5	100	8	000813	401276
SD 5, SE 5 SD 52, SD 54 SD 540, SD 5200 SD 5400 SD 6, SD 6-1 SD 62, SD 64 SD 600	610	50	150	55	85	100	65	7	115	10	000605	400857
SD 6200 SD 6400 SD 7, SD 7-1 SD 72, SD 74 SD 740 SD 80, SD 8 SD 8-1, SD 82 SD 800, SD 820	612	50	150	65	110	130	80	9	120	12	000603	000438
SD 90, SD 9 SD 9-1, SD 92 SD 900	1012	50	162	80	118	145	97	9	150	12	004174	001270
SD 120, SD 140	1100	50	205	100	139	165	112	9,5	160	8	000751	000538

Pressure and vacuum relief valves







Model	l	d	d_1	d_2	d_3	d_4	h	h_1	for use on vacuum side Item No.	for use on pressure side Item No.
SD 2n, SE 2n SD 2n-1	-	-	-	-	-	-	-	-	-	-
SD 3, SE 3, SD 3-1	-	-	-	-	-	-	-	-	-	-
SD 24, SE 24	-	-	-	-	-	-	-	-	-	-
SD 4n, SE 4n SD 4n-1, SD 42 SE 42, SD 400	135	45	68	79	100	5,5	120	10	000592	000593
SD 420									000678	000679
SD 5, SE 5, SD 52 SD 54, SD 540 SD 5200, SD 5400 SD 6, SD 6-1 SD 62, SD 64 SD 600	180	53	85	100	125	7	150	10	000509	000510
SD 6200, SD 6400 SD 7, SD 7-1 SD 72, SD 74 SD 740	205	68	110	130	145	9	178	12	000662	000663
SD 80, SD 8 SD 8-1, SD 82									000442	000443
SD 800, SD 820									000662	000663
SD 90, SD 9 SD 9-1, SD 92 SD 900	225	80	118	145	180	9	188	12	001269	001268
SD 120, SE 140	248	108	139	165	180	9	202,5	30	000571	000572

Dimensions in mm (subject to modifications)

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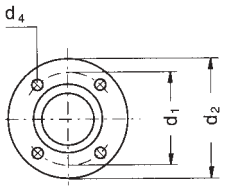
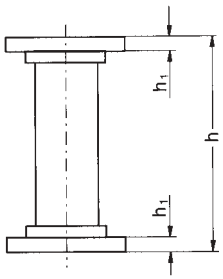
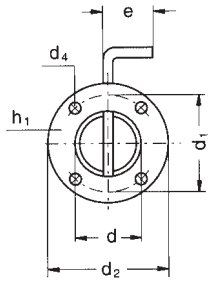
Intermediate tubes
necessary with fine filter
and excess pressure valve





Model	d_1	d_2	d_4	h	h_1	Item No.
SD 2n, SE 2n SD 2n-1	-	-	-	-	-	-
SD 3, SE 3, SD 3-1	-	-	-	-	-	-
SD 24, SE 24	-	-	-	-	-	-
SD 4n, SE 4n SD 4n -1, SD 42 SE 42, SD 400 SD 420	68	79	6	140	10	001164
SD 5, SE 5, SD 52 SD 54, SD 540 SD 5200, SD 5400 SD 6, SD 6-1 SD 62, SD 64 SD 600	85	100	7	185	10	000345
SD 6200, SD 6400 SD 7, SD 7-1, SD 72 SD 74, SD 740 SD 80, SD 8, SD 8-1 SD 82, SD 800 SD 820	110	130	9	240	12	001163
SD 120, SD 140	139	165	9	270	30	000569

Throttle valve



Model	d	d_1	d_2	d_4	e	h_1	Item No.
SD 20, SE 20	-	-	-	-	-	-	-
SD 22, SE 22	-	-	-	-	-	-	-
SD 2n, SE 2n SD 2n-1	38	58	70	6	34	12	000111
SD 3, SE 3, SD 3-1	24	48	60	6	34	12	000112
SD 24. SE 24, SD 4n SE 4n, SD 4n-1 SD 42, SE 42 SD 400, SE 420	45	68	79	6	34	12	000105
SD 5, SE 5, SD 52 SD 54, SD 540 SD 5200, SD 5400 SD 6,, SD 6-1 SD 62, SD 64 SD 600	55	85	100	7	34	12	000373
SD 6200, SD 6400 SD 7, SD 7-1, SD 72 SD 74, SD 740 SD 80, SD 8, SD 8-1 SD 82, SD 800 SD 820	65	110	130	9	50	12	000559
SD 90, SD 9 SD 9-1, SD 92 SD 900	80	118	145	9	70	12	001271
SD 120, SD 140	98	139	165	9	100	23	000738

Dimensions in mm (subject to modifications)

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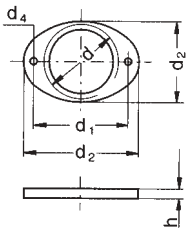
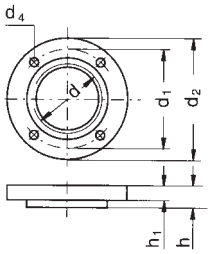
Threaded flanges

SD 20
SE 20
SD 22
SE 22

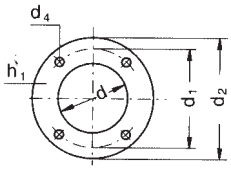


SD 2n –
SD 900
SD 120
SD 140



Model	d	d_1	d_2	d_4	h	h_1	Item No.
SD 20, SE 20	R1" x 12	56	60/73	5,5	12	-	001462
SD 22, SE 22	R1 1/4" x 12	58	50/70	5,5	12	-	001452
SD 2n, SE 2n SD 2n-1	R1 1/4" x 10	58	70	5,5	10	10	000109
SD 3, SE 3, SD 3-1	R 3/4" x 10	48	60	5,5	10	10	000110
SD 24. SE 24, SD 4n SE 4n, SD 4n-1 SD 42, SE 42 SD 400, SE 420	R1 1/2" x 15	68	79	6	15	10	000103
SD 5, SE 5, SD 52 SD 54, SD 540 SD 5200, SD 5400 SD 6, SD 6-1 SD 62, SD 64 SD 600	R2" x 15	85	100	7	15	10	000372
SD 6200, SD 6400 SD 7, SD 7-1, SD 72 SD 74, SD 740 SD 80, SD 8, SD 8-1 SD 82, SD 800 SD 820	R2 1/2" x 20	110	130	9	20	12	000439
SD 90, SD 9 SD 9-1, SD 92 SD 900	R3" x 20	118	145	9	20	12	001272
SD 120, SD 140	R4" x 30	139	165	9	30	-	007376

Welding flanges



Model	d	d_1	d_2	d_4	h_1	Item No.
SD 20, SE 20	-	-	-	-	-	-
SD 22, SE 22	-	-	-	-	-	-
SD 2n, SE 2n SD 2n-1	38	58	70	5,5	10	000107
SD 3, SE 3, SD 3-1	24	48	60	5,5	10	000108
SD 24. SE 24, SD 4n SE 4n, SD 4n-1 SD 42, SE 42 SD 400, SE 420	49	68	79	5,5	10	000104
SD 5, SE 5, SD 52 SD 54, SD 540 SD 5200, SD 5400 SD 6, SD 6-1 SD 62, SD 64 SD 600	61	85	100	7	12	000371
SD 6200, SD 6400 SD 7, SD 7-1, SD 72 SD 74, SD 740 SD 80, SD 8, SD 8-1 SD 82, SD 800 SD 820	76,5	110	130	9	12	000656
SD 90, SD 9 SD 9-1, SD 92 SD 900	90	118	145	9	12	001273
SD 120, SD 140	115,5	139	165	9,5	12	008770

Dimensions in mm (subject to modifications)

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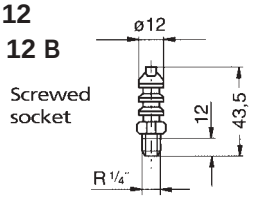
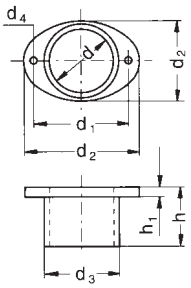
Connectors

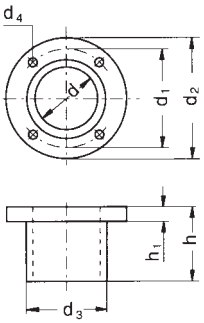
SD 12
SE 12
SD 12 B



SD 20
SE 20
SD 22
SE 22

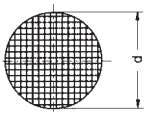


SD 2n –
SD 900
SD 120
SD 140



Model	d	d_1	d_2	d_3	d_4	h	h_1	Item No.
SD 12, SE 12 SD 12 B	Dimensions see illustration							001193
SD 20, SE 20	30	56	60/73	41	5,5	35	6	000301
SD 22, SE 22	37	58	50/70	45	5,5	35	6	001451
SD 2n, SE 2n SD 2n-1	38	58	70	45	5,5	35	6	000114
SD 3, SE 3, SD 3-1	24	48	60	30	5,5	35	6	000115
SD 24, SE 24, SD 4n SE 4n, SD 4n-1 SD 42, SE 42 SD 400, SD 420	45	68	79	54	5,5	50	8	401276
SD 5, SE 5, SD 52 SD 54,SD 540 SD 5200, SD 5400 SD 6, SD 6-1, SD 62 SD 64, SD 600	55	85	100	65	7	50	10	400857
SD 6200, SD 6400 SD 7, SD 7-1, SD 72 SD 74, SD 740 SD 80, SD 8, SD 8-1 SD 82, SD 800 SD 820	65	110	130	80	9	60	12	000438
SD 90, SD 9, SD 9-1 SD 92, SD 900	81	118	145	97	9	60	12	001270
SD 120, SE 140	94	139	165	100	9	100	6	007716

Wire mesh guards



Model	d	Mash width 0,32 Item No.	Mash width 8 Item No.
SD 20, SE 20	33	008687	008688
SD 22, SE 22	40	008689	008690
SD 2n, SE 2n SD 2n-1, SD 3 SE 3, SD 3-1	70	000460	000464
SD 24, SE 24 SD 4n, SD 4n-1 SD 42, SE 42 SD 400, SD 420	85	000461	000465
SD 5, SE 5, SD 52 SD 54, SD 540 SD 5200, SD 5400 SD 6, SD 6-1, SD 62 SD 64, SD 600	113	000462	000466
SD 6200, SD 6400 SD 7, SD 7-1, SD 72 SD 74, SD 740 SD 80,SD 8, SD 8-1 SD 82, SD 800 SD 820	133	000463	000467
SD 90, SD 9, SD 9-1 SD 92, SD 900	148	001319	001320
SD 120, SD 140	155	000575	000577

Dimensions in mm (subject to modifications)

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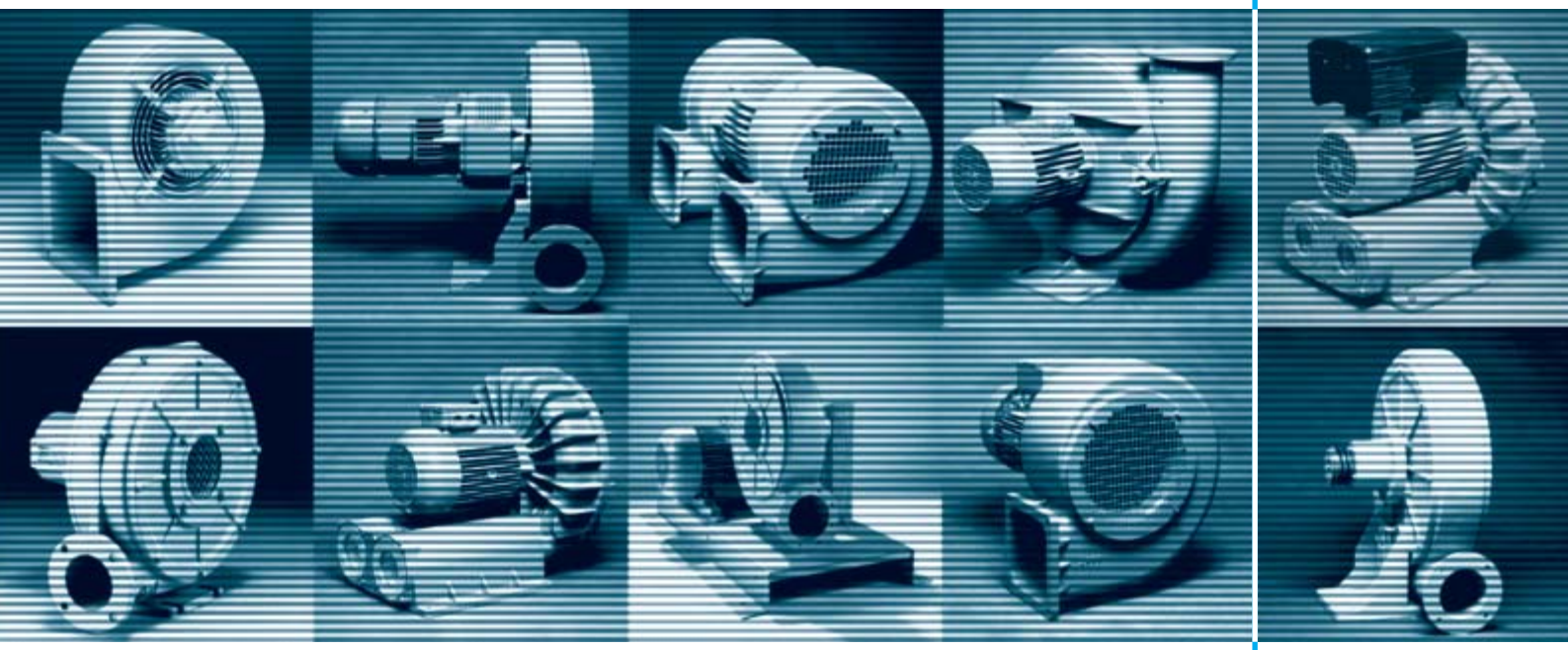

MANUFACTURING PROGRAMME

LOW PRESSURE BLOWERS	Catalogue **ND**
MEDIUM PRESSURE BLOWERS	Catalogue **RD**
HIGH PRESSURE BLOWERS	Catalogue **HRD**
SIDE CHANNEL BLOWERS	Catalogue **SD**
CONVEYING BLOWERS	Catalogue **FD RD F**
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