SEF

AXIAL SMOKE EXHAUST FAN SEF

Characteristics:
Reversible axial smoke exhaust fan, temperature class F200, F300 or F400, for smoke and heat extraction systems, smoke extraction compensation and residential ventilation

version: 20/10/26

Intended Use

SEF smoke exhaust fans are devices designed to create reliable and effective ventilation systems for large-volume rooms, whilst ensuring a high level of safety and the removal of smoke and hot gases generated by a fire. They significantly facilitate the evacuation of people from the fire-affected zone and the firefighting operations carried out by the fire service. Systems utilising smoke exhaust fans are most commonly installed in enclosed car parks, garages, and buildings where smoke extraction systems are provided for. These systems fulfil three functions:

- **Smoke extraction:** this function is activated during a fire. In this situation, the role of smoke exhaust fans is to remove smoke and heat from the protected area. The operation of smoke exhaust fans limits the spread of smoke, ensuring a clear access route for the fire service.
- **Aeration:** this function is performed during a fire. In this situation, the fans operate in the opposite direction, forcing air into the occupied zone to flush it out and displace the smoke towards the so-called extraction points.
- **Residential ventilation (optional):** this is carried out during normal operation of the system in continuous mode and ensures the removal of pollution. The residential function is usually carried out at significantly lower flow rates; therefore, the fans are designed to operate with an Inverter and may optionally be fitted with PTC sensors.

Reversibility, i.e. efficiency in the opposite direction, is approximately 70% for SEF types and approximately 50% for SEFGV types.

Classification

Fire resistance class of the SEF fan:

- **F400** – fire resistance rating up to 400°C for 120 minutes
- **F300** – fire resistance rating up to 300°C for 60 minutes
- **F200** – fire resistance rating up to 200°C for 120 minutes

The fan complies with the requirements of the Standard:

- **PN-EN 12101-3:2015** Smoke and heat control systems. Part 3: Technical requirements for smoke exhaust fans.

Performance parameters tested in accordance with the Standard:

- **PN-EN ISO 5801:2017** Fans. Performance testing using standardised test benches.
- **PN-EN ISO 13350:2015** Industrial fans. Testing of the performance characteristics of axial flow fans.

Dimensions

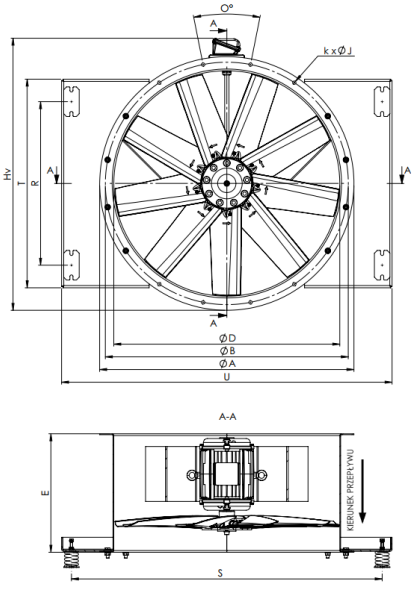


Figure 1. Dimensions of the SEF vertical fan

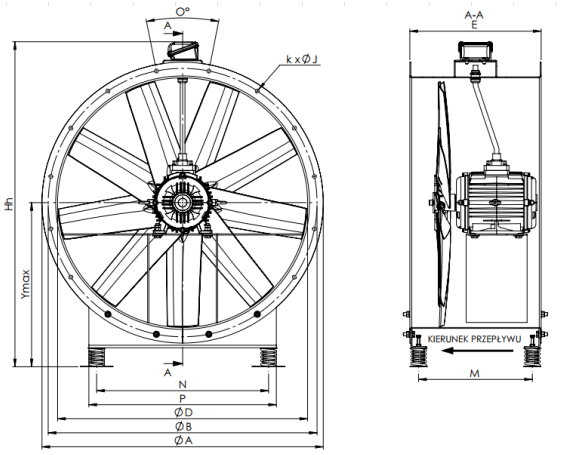


Figure 2. Dimensions of the SEF horizontal fan

Table 1. Illustrative dimensions of the SEF fan

Model	N [kW]	RPM	øD [mm]	øA [mm]	øB [mm]	E [mm]	øJ [mm]	k [-]	O [°]	M [mm]	N [mm]	P [mm]	Hh [mm]	Ymax [mm]	R [mm]	T [mm]	S [mm]	U [mm]	Hv [mm]
SEF 40	0,75÷2,64	3000	400	490	450	400	12	8	45°	344	250	300	628	316	310	430	750	680	557
	0,75÷2,64	3000	450	540	500	400	12	8	45°	344	275	325	679	341	350	470	800	730	608
SEF 45	3,0÷3,6	3000	450	540	500	420	12	8	45°	364	275	325	678	341	350	470	800	730	607
	4,0÷4,8	3000	450	540	500	450	12	8	45°	394	275	325	692	341	350	470	800	730	621
	1,1÷2,64	3000	500	600	560	400	12	12	30°	344	450	500	740	371	390	530	850	780	669
SEF 50	3,0÷3,6	3000	500	600	560	420	12	12	30°	364	450	500	739	371	390	530	850	780	668
	4,0÷4,8	3000	500	600	560	450	12	12	30°	394	450	500	753	371	390	530	850	780	682
	5,5÷6,6	3000	500	600	560	570	12	12	30°	514	450	500	753	371	390	530	850	780	682
	1,5÷2,64	3000	560	660	620	400	12	12	30°	344	475	525	800	401	420	560	910	840	729
SEF 56	3,0÷3,6	3000	560	660	620	420	12	12	30°	364	475	525	800	401	420	560	910	840	729
	4,0÷4,8	3000	560	660	620	450	12	12	30°	394	475	525	815	401	420	560	910	840	744
	5,5÷9,0	3000	560	660	620	570	12	12	30°	514	475	525	815	401	420	560	910	840	744
	0,75÷1,8	1500	630	730	690	400	12	12	30°	344	525	575	866	436	450	610	980	910	795
SEF 63	2,2÷2,64	1500	630	730	690	420	12	12	30°	364	525	575	865	436	450	610	980	910	794
	3,0÷3,6	1500	630	730	690	450	12	12	30°	394	525	575	881	436	450	610	980	910	810
	1,1÷1,8	1500	710	810	770	400	12	16	22,5°	344	525	575	946	476	510	670	1080	1000	875
SEF 71	2,2÷3,6	1500	710	810	770	420	12	16	22,5°	364	525	575	946	476	510	670	1080	1000	875
	4,0÷4,8	1500	710	810	770	450	12	16	22,5°	394	525	575	962	476	510	670	1080	1000	891
	2,2÷3,6	1500	800	900	860	420	12	16	22,5°	364	550	600	1041	526	580	740	1170	1100	965
SEF 80	4,0÷4,8	1500	800	900	860	450	12	16	22,5°	394	550	600	1058	526	580	740	1170	1100	982
	5,5÷9,0	1500	800	900	860	570	12	16	22,5°	514	550	600	1058	526	580	740	1170	1100	982
SEF 90	5,5÷9,0	1500	900	1020	970	570	15	16	22,5°	512	600	650	1105	576	680	840	1270	1190	1039
	11,0÷18,0	1500	900	1020	970	710	15	16	22,5°	652	600	650	1140	576	680	840	1270	1190	1074
SEF 100	5,5÷9,0	1500	1000	1120	1070	570	15	16	22,5°	512	650	700	1204	631	740	900	1390	1310	1133
	11,0÷18,0	1500	1000	1120	1070	710	15	16	22,5°	652	650	700	1239	631	740	900	1390	1310	1168
	18,5÷26,4	1500	1000	1120	1070	790	15	16	22,5°	732	650	700	1235	631	740	900	1390	1310	1164
	7,5÷9,0	1500	1120	1250	1190	570	15	20	18°	492	750	800	1326	696	820	1050	1510	1430	1255

Design variants

The SEF fan series comprises the following variants:

- SEF – fan in a long housing
- SEFGV – fan with a straightening vane
- SEFCR – two fans connected in series

Description

The SEF is manufactured with the diameter series d = 400 mm – 1250 mm and operates with motors up to 54 kW. They can act as dual-function devices (intended both for domestic and firefighting applications). The fan is designed and adjusted for continuous operation under conditions at the place of installation and is characterised by a high resistance to mechanical, corrosive, thermal and humidity impacts to which it will be exposed to during operation. The SEF series is certified for use during fire in classes F200, F300 and F400. All the materials, parts and associated components are consistent with standards and directives.

Design

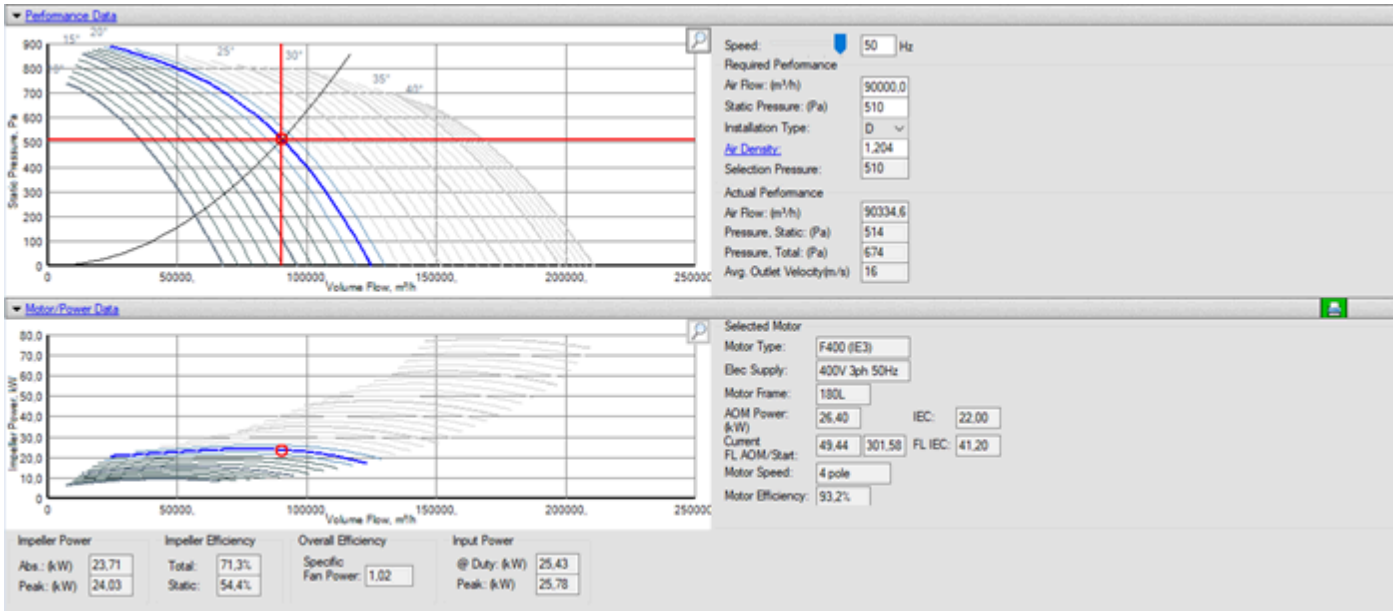
SEF fans feature a galvanised steel casing to which two mounting feet are bolted. The casing is designed to ensure high structural rigidity. The impeller and blades are designed using a high-strength aluminum alloy. The blade angles can be adjusted whilst the fan is stationary, subject to the manufacturer's approval. A junction box is fitted to the fan casing, enabling quick and trouble-free installation at the facility. The fans are fitted with high-efficiency motors corresponding to classes F200, F300 and F400, which are three-phase 400V/50Hz. The motors have protection class IP55, insulation class H and cooling method IC418. The fan can be used with standard, fully certified accessories supplied with it, such as mounting feet, vibration isolators, flexible connectors, inlet nozzles, protective nets, silencers and non-return valves.

Advantages

- certified accessories,
- horizontal and vertical installation,
- capable of operating in domestic mode (PTC sensors are available as an option)
- certified product range covering diameters d = 400 mm to 1,250 mm, with motor power up to 54 kW
- option to fit a flow-straightening vane at the fan outlet (SEF → SEFGV)
- option to connect two SEF fans in series (SEF → SEFCR)
- thanks to the vane, the SEFGV fan straightens the airflow, which significantly improves performance parameters such as efficiency, static pressure and airflow rate, and ensures the airflow has a uniform shape without any additional turbulence occurring directly behind the fan, as is the case with fans without deflectors; consequently, they do not cause additional, unpredictable losses in the duct,
- the SEFCR fan is capable of generating twice the static head whilst maintaining the same diameter, making it an excellent choice for installations with a small cross-section and high pressure losses,
- a short response time to a fire alarm signal,
- high smoke extraction efficiency achieved in a short time,
- easy installation thanks to the fan's design and the junction box mounted on the casing,
- easy system control thanks to the option of using a variable frequency drive,
- operation at 50 Hz or 60 Hz,
- effective smoke extraction and ventilation (standard SEF reversibility = 70 per cent), low running costs thanks to high efficiency across the full operating range (~85 per cent at the energy optimum for SEFGV fans),
- very high corrosion resistance thanks to the galvanisation of the fan's static components and the aluminium impeller.

Technical data

A selection programme containing all technical parameters is available from the Smay technical department.



TL-C(N)-P duct silencer, with and without a core

TL-CN-P duct silencers with a sound-absorbing core are manufactured in diameters ranging from Ø400 to Ø1250. The maximum length of the silencer is 1450 mm. TL-CN-P silencers have a body made of galvanised steel sheet. The inner lining of the body is made of perforated galvanised steel sheet. The silencer body is fitted with end caps made of galvanised steel sheet, in which rivet nuts are fitted for bolted connections. The silencer core is made of 1 mm thick perforated galvanised steel sheet and is fitted with end caps (flat and conical) made of galvanised sheet metal. TL-C-P silencers without a core have the same range of dimensions and construction as TL-CN-P silencers, with the exception that they do not feature a silencing core.

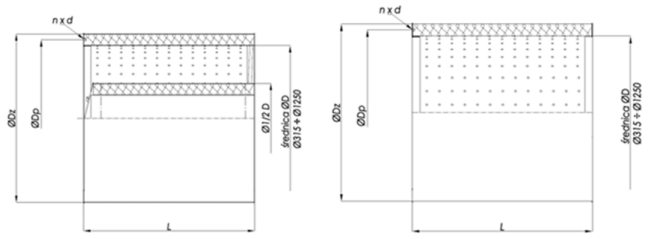


Figure 3. Dimensions of the TL-C(N)-P duct silencer

Table 2. Dimensions of the TL-C(N)-P duct silencer

D [mm]	Dp [mm]	Dz [mm]	nxM	TL-CN-P			TL-C-P		
				Weight approx [kg]					
				L=500 [mm]	L=1000 [mm]	L=1450 [mm]	L=500 [mm]	L=1000 [mm]	L=1450 [mm]
400	450	600	12 x M10	-	-	-	20	34	44
450	500	650	12 x M10	-	-	-	21	35	47
500	560	700	12 x M10	25	45	63	22	37	51
560	620	760	12 x M10	29	50	71	24	40	56
630	690	830	12 x M10	33	56	79	26	44	62
710	770	910	16 x M10	38	63	88	28	48	68
800	860	1000	16 x M10	42	71	99	31	53	75
900	970	1100	16 x M12	48	79	111	35	59	84
1000	1070	1200	16 x M12	52	88	123	38	65	92
1120	1190	1320	20 x M12	59	98	138	42	72	102
1250	1320	1450	20 x M12	66	110	154	47	80	113

When placing an order, please provide the following information:

TL - <X> - P - <D> - <L>

Where:

X	**silencer type**
	C - tubular silencer (without core)
	CN - core silencer
D	**nominal diameter [mm]**
	400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250
L	**silencer length [mm]**
	500, 750, 1000, 1250, 1450

Example marking: **TL - C - P - 800 - 500**

SDS-KA-P flexible connector

SDS-KA-P flexible connectors are used to connect fans or air handling units to ventilation ducts. The use of flexible connectors prevents vibrations from mechanical equipment from being transmitted to the rest of the ventilation system.

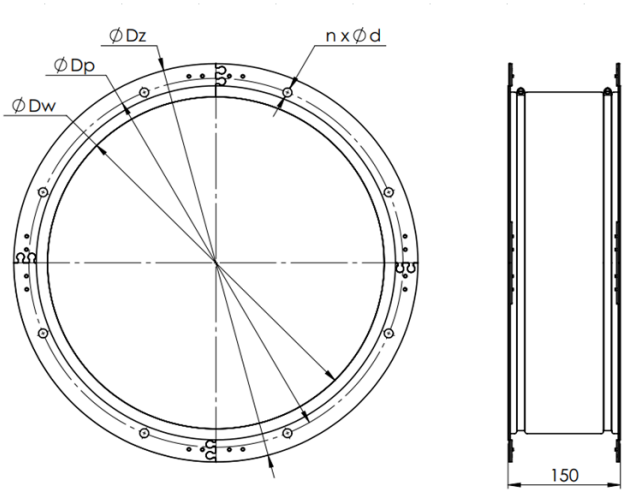


Figure 4. Dimensions of the SDS-KA-P flexible connector

Table 3. Dimensions of the SDS-KA-P flexible connector

TYPE	Dz [mm]	Dw [mm]	Dp [mm]	d [mm]	n	Weight [kg]
SEF40	490	400	450	12	8	4.2
SEF45	540	450	500	12	8	4.6
SEF50	590	500	560	12	12	5.3
SEF56	660	560	620	12	12	5.9
SEF63	730	630	690	12	12	6.5
SEF71	810	710	770	12	16	7.3
SEF80	900	800	860	12	16	8.1
SEF90	1010	900	970	15	16	9.5
SEF100	1110	1000	1070	15	16	10.5
SEF112	1240	1120	1190	15	20	12.3
SEF125	1380	1250	1320	15	20	14.3

When placing an order, please provide the following information:

SDS-KA-P - <Dw>

Where:

Dw	inner diameter [mm]
	400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250

Example marking: **SDS-KA-P - 630**

OW-P inlet cover

The inlet cover is designed to protect the smoke exhaust fan from foreign objects entering the system.

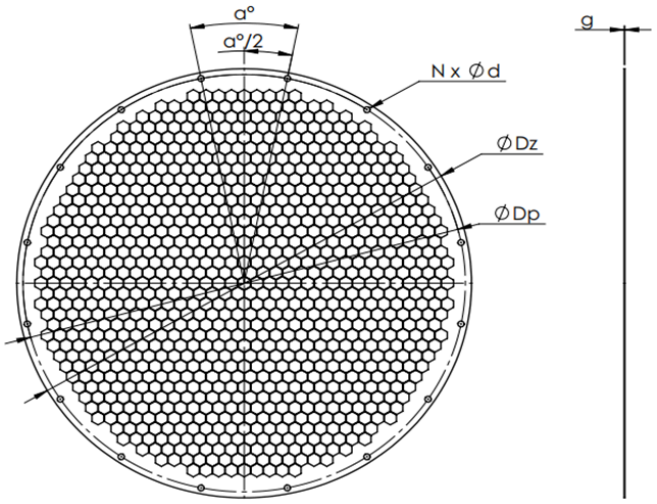


Figure 5. Dimensions of the OW-P inlet cover

Table 4. Dimensions of the OW-P inlet cover

TYPE	D [mm]	Dz [mm]	Dp [mm]	d [mm]	N [-]	a [°]	g [mm]	Weight [kg]
SEF40	400	475	450	12	8	45	1.5	0.8
SEF45	450	530	500	12	8	45	1.5	0.8
SEF50	500	600	560	12	12	30	1.5	1.2
SEF56	560	660	620	12	12	30	1.5	1.4
SEF63	630	730	690	12	12	30	1.5	1.6
SEF71	710	810	770	12	16	22.5	1.5	1.8
SEF80	800	900	860	12	16	22.5	2	2.9
SEF90	900	1000	970	15	16	22.5	2	3.3
SEF100	1000	1100	1070	15	16	22.5	2	3.7
SEF112	1120	1220	1190	15	20	18	2	4.4
SEF125	1250	1370	1320	15	20	18	2	5.6

When placing an order, please provide the following information:

OW-P - <D>

Where:

D	nominal diameter [mm]
	400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250

Example marking: **OW-P - 630**

SM-H-P horizontal foundation footing

Table 5. Dimensions of the SM-H-P horizontal mounting foot

TYPE	D [mm]	Dp [mm]	Dw [mm]	H [mm]	L [mm]	Lp [mm]	M [mm]	N [mm]	Gr [mm]	R [mm]	S [mm]	n [-]	α [°]	Weight [kg]
SEF40	400	450	430	80	300	250	50	40	4	R4	12	2	45	0.9
SEF45	450	500	480	80	325	275	50	40	4	R4	12	2	45	1
SEF50	500	560	535	160	500	450	50	42.5	4	R4	12	4	30	2
SEF56	560	620	595	160	525	475	50	42.5	4	R4	12	4	30	2.1
SEF63	630	690	665	170	575	525	50	42.5	4	R4	12	4	30	2.3
SEF71	710	770	745	150	575	525	50	42.5	4	R4	12	4	22.5	2.2
SEF80	800	860	835	150	600	550	50	47.5	4	R4	12	4	22.5	2.3
SEF90	900	970	935	160	650	600	50	47.5	4	R4	15	4	22.5	2.6
SEF100	1000	1070	1035	160	700	650	50	52.5	5	R5	15	4	22.5	3.6
SEF112	1120	1190	1155	170	800	750	60	57.5	5	R5	15	4	18	4.8
SEF125	1250	1320	1285	185	850	800	60	60	5	R5	15	4	18	5.1

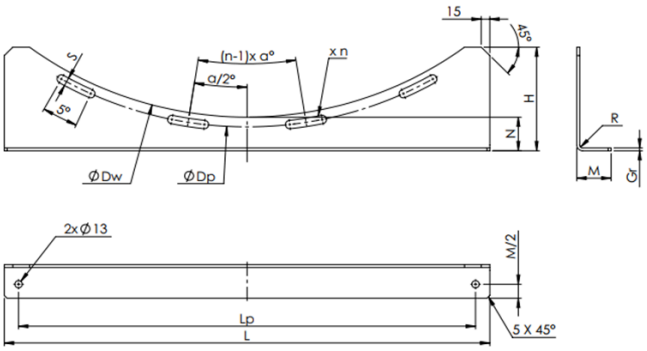


Figure 6. Dimensions of the SM-H-P horizontal foundation base

When placing an order, please provide the following information:

SM-H-P - <D>

Where:

D	nominal diameter [mm]
	400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250

Example marking: **SM-H-P - 630**

SM-V-P vertical foundation base

Table 6. Dimensions of the SM-V-P vertical mounting foot

TYPE	D [mm]	A [mm]	B [mm]	C [mm]	Cp [mm]	Gr [mm]	R [mm]	Dz [mm]	Dp [mm]	J [mm]	E [mm]	S [mm]	α [°]	n [-]	Weight [kg]
SEF40	400	250	50	430	310	4	4	420	450	165	35	12	45	2	3.9
SEF45	450	260	50	470	350	4	4	470	500	165	35	12	45	2	4.3
SEF50	500	270	50	530	390	4	4	520	560	165	35	12	30	4	4.9
SEF56	560	280	50	560	420	4	4	580	620	165	35	12	30	4	5.2
SEF63	630	290	50	610	450	4	4	650	690	165	35	12	30	4	5.6
SEF71	710	300	50	670	510	4	4	730	770	175	40	12	22.5	4	6.4
SEF80	800	310	50	740	580	4	4	820	860	175	35	12	22.5	4	7.1
SEF90	900	320	50	840	680	4	4	920	970	175	40	15	22.5	4	8.2
SEF100	1000	330	50	900	740	5	5	1020	1070	185	40	15	22.5	4	11.2
SEF112	1120	370	50	1050	820	5	5	1140	1190	185	40	15	18	6	13.7
SEF125	1250	390	60	1150	900	5	5	1270	1320	185	40	15	18	6	16

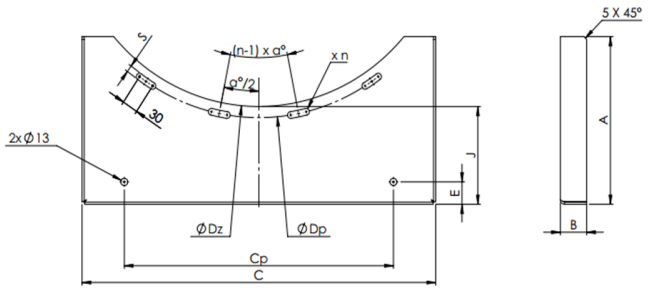


Figure 7. Dimensions of the SM-H-P vertical mounting base

When placing an order, please provide the following information:

SM-V-P - <D>

Where:

D	nominal diameter [mm]
	400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250

Example marking: **SM-V-P - 630**

DCB-P intake nozzle (inlet flange)

A profiled inlet nozzle fitted on the suction side of the SEF fan, which shapes the airflow entering the impeller. It minimises inlet losses and turbulence, improving the aerodynamic efficiency of the unit and reducing the noise generated at the inlet. Recommended for all installation configurations in which the fan operates with an open air intake.

Table 7. Dimensions of the DCB-P intake nozzle

Type	DN [mm]	Dz1 [mm]	Dp1 [mm]	Dz2 [mm]	Dp2 [mm]	d1 [mm]	n1 [-]	a1 [°]	d2 [mm]	n2 [-]	a2 [°]	R [mm]	L [mm]	g [mm]	Weight [kg]
SEF40	400	490	450	540	500	12	8	45	12	8	45	27	130	2	4.8
SEF45	450	540	500	600	560	12	8	45	12	12	30	27	130	2	5.5
SEF50	500	600	560	660	620	12	12	30	12	12	30	32	135	2	6.5
SEF56	560	660	620	730	690	12	12	30	12	12	30	37	140	2	7.5
SEF63	630	730	690	810	770	12	12	30	12	16	22.5	43	145	3	8.6
SEF71	710	810	770	900	860	12	16	22.5	12	16	22.5	43	145	3	9.9
SEF80	800	900	860	1020	970	12	16	22.5	15	16	22.5	53	155	3	12
SEF90	900	1020	970	1120	1070	15	16	22.5	15	16	22.5	53	155	3	13.9
SEF100	1000	1120	1070	1250	1190	15	16	22.5	15	20	18	63	165	3	16.6
SEF112	1120	1250	1190	1380	1320	15	20	18	15	20	18	68	185	3	20.1
SEF125	1250	1380	1320	1530	1470	15	20	18	15	20	18	78	205	3	24

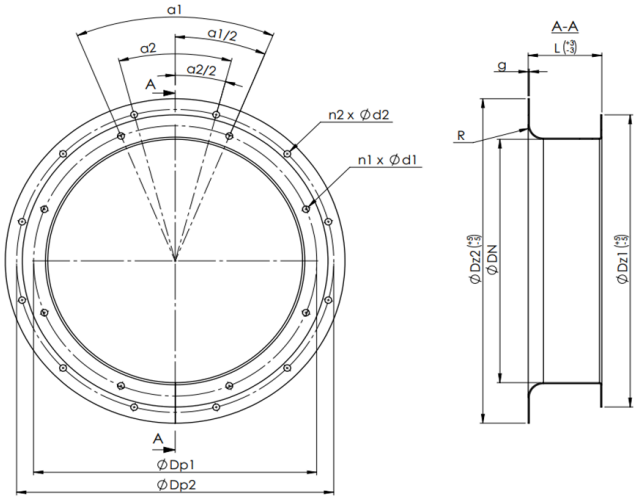


Figure 8. Dimensions of the DCB-P intake nozzle

When placing an order, please provide the following information:

DCB-P - <DN>

Where:

DN	nominal diameter [mm]
	400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250

Example marking: **DCB-P - 630**

DW-P round diffuser

A circular diffuser fitted to the outlet of a SEF fan, which extends the air flow expansion zone and reduces the outlet air velocity. It minimises dynamic pressure drops and the noise level generated at the outlet. Used in installations where uniform distribution of the air flow is required without sudden expansion within the tunnel or duct.

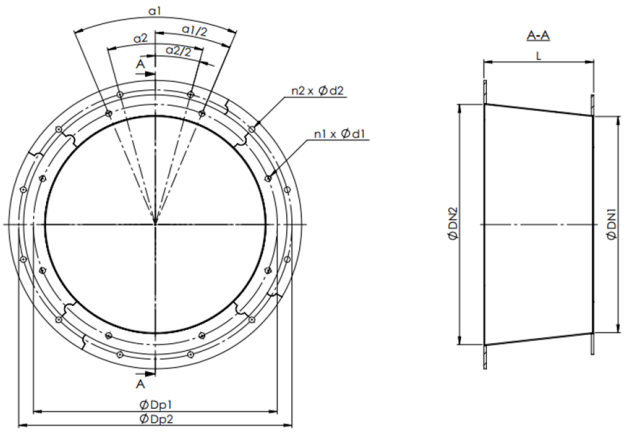


Figure 9. Dimensions of the DW-P diffuser

Table 8. Dimensions of the DW-P diffuser

Type	DN1 [mm]	DN2 [mm]	L [mm]	Dp1 [mm]	Dp2 [mm]	d1 [mm]	n1 [-]	a1 [°]	d2 [mm]	n2 [-]	a2 [°]	Weight [kg]
SEF40	400	450	200	450	500	12	8	45	12	8	45	9.2
SEF45	450	500	225	500	560	12	8	45	12	12	30	11.1
SEF50	500	560	250	560	620	12	12	30	12	12	30	13.2
SEF56	560	630	280	620	690	12	12	30	12	12	30	15.6
SEF63	630	710	315	690	770	12	12	30	12	16	22.5	18.7
SEF71	710	800	355	770	860	12	16	22.5	12	16	22.5	22.5
SEF80	800	900	400	860	970	12	16	22.5	15	16	22.5	28
SEF90	900	1000	450	970	1070	15	16	22.5	15	16	22.5	35.1
SEF100	1000	1120	500	1070	1190	15	16	22.5	15	20	18	43.2
SEF112	1120	1250	560	1190	1320	15	20	18	15	20	18	53.2
SEF125	1250	1400	625	1320	1470	15	20	18	15	20	18	63.7

When placing an order, please provide the following information:

DW-P - <DN1>

Where:

DN1	nominal diameter [mm]
	400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250

Example marking: **DW-P - 630**

GV-P outlet air deflector

A set of straightening vanes (anti-swirl), fitted behind the SEF fan impeller, which eliminate the rotational component of the airflow leaving the fan. It straightens the flow direction to an axial one, increasing the effective thrust/efficiency of the system and reducing energy losses associated with the swirling nature of the airflow. Particularly recommended for longer sections of ductwork downstream of the fan.

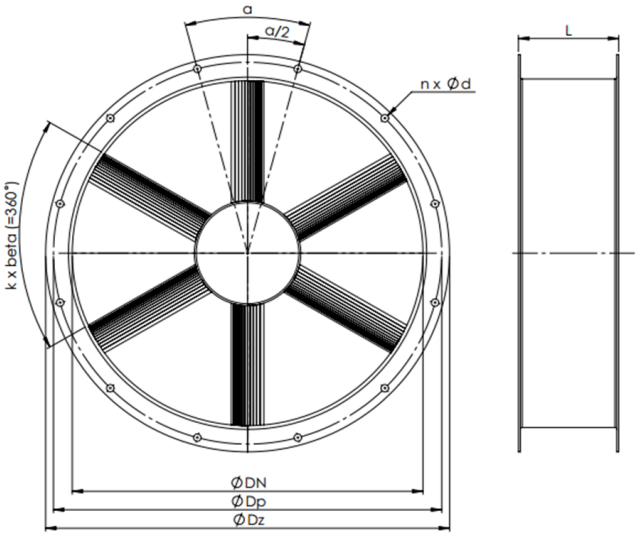


Figure 10. Dimensions of the air deflectors GV-P

Table 9. Dimensions of the air deflectors GV-P

Type	DN [mm]	Dz [mm]	Dp [mm]	L [mm]	n [-]	a [°]	d [mm]	k [-]	beta [°]	Weight [kg]
SEF40	400	480	450	160	8	45	12	6	60	11.8
SEF45	450	530	500	160	8	45	12	6	60	13.4
SEF50	500	600	560	160	12	30	12	6	60	15.1
SEF56	560	660	620	160	12	30	12	6	60	16.9
SEF63	630	730	690	160	12	30	12	6	60	19.1
SEF71	710	810	770	160	16	22.5	12	6	60	21.6
SEF80	800	900	860	160	16	22.5	12	6	60	24.4
SEF90	900	1000	970	200	16	22.5	15	7	51.5	36.1
SEF100	1000	1100	1070	200	16	22.5	15	7	51.5	41.1
SEF112	1120	1220	1190	200	20	18	15	7	51.5	47.1
SEF125	1250	1370	1320	200	20	18	15	7	51.5	53.9

When placing an order, please provide the following information:

GV-P - <DN>

Where:

DN	nominal diameter [mm]
	400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250

Example marking: **GV-P - 630**

KZS-P non-return valve

A non-return valve fitted to the inlet or outlet of a SEF fan, preventing the backflow of airflow or smoke when the fan is at a standstill or when adjacent systems are in operation. It opens automatically under the pressure generated by the running fan and closes when the fan stops. Used in multi-fan installations and where it is necessary to block the flow direction when the system is at rest, or where thermal bridges need to be avoided.

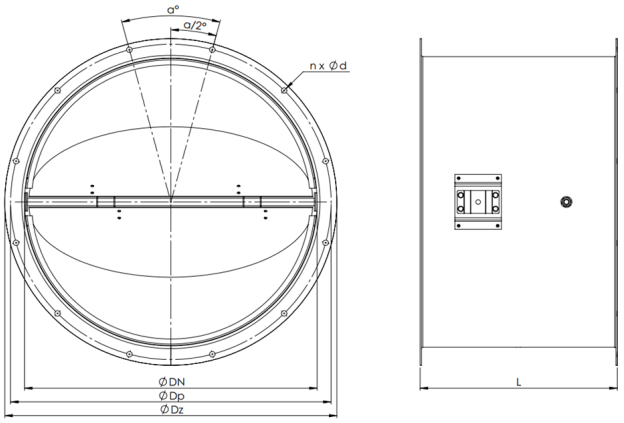


Figure 11. Dimensions of the KZS-P non-return valve

Table 10. Dimensions of the KZS-P non-return valve

Type	DN [mm]	Dz [mm]	Dp [mm]	L [mm]	n [-]	a [°]	d [mm]	Weight [kg]
SEF40	400	480	450	325	8	45	12	20.06
SEF45	450	530	500	350	8	45	12	22.78
SEF50	500	600	560	375	12	30	12	25.67
SEF56	560	660	620	400	12	30	12	28.73
SEF63	630	730	690	425	12	30	12	32.47
SEF71	710	810	770	475	16	22.5	12	36.72
SEF80	800	900	860	525	16	22.5	12	41.48
SEF90	900	1000	970	575	16	22.5	15	61.37
SEF100	1000	1100	1070	625	16	22.5	15	69.87
SEF112	1120	1220	1190	675	20	18	15	80.07
SEF125	1250	1370	1320	750	20	18	15	91.63

When placing an order, please provide the following information:

KZS-P - <DN>

Where:

DN	nominal diameter [mm]
	400, 450, 500, 560, 630, 710, 800, 900, 1000, 1120, 1250

Example marking: **KZS-P - 630**

KFr vibration isolators

Table 11. Dimensions of KFr vibration isolators

Fan size	Type of vibration isolators
SEF(V) 40	KFr5
SEF(V) 45	
SEF(V) 50	
SEF(V) 56	
SEF(V) 63	KFr8
SEF(V) 71	
SEF(V) 80	KFr9
SEF(V) 90	
SEF(V) 100	
SEF(V) 112	KFr12
SEF(V) 125	

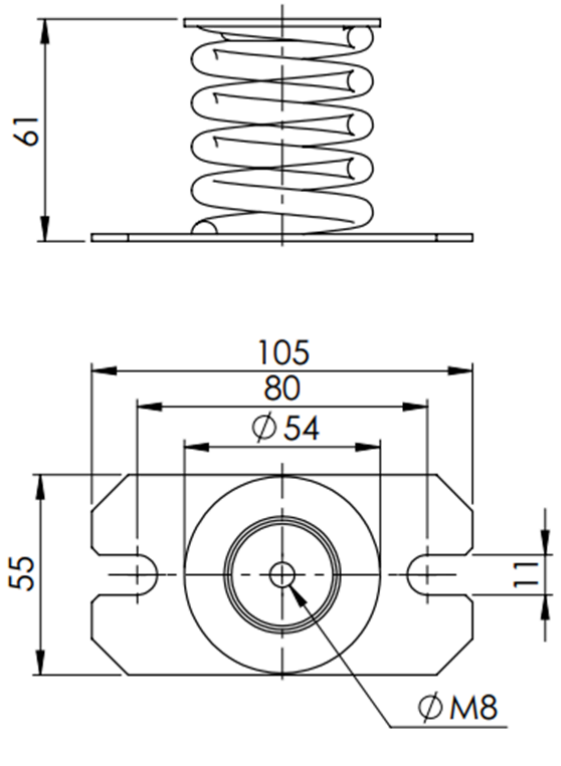


Figure 12. Dimensions of KFr vibration isolators

SEF - Axial smoke exhaust fan SEF

When placing an order, please provide the following information:

SEF <D> <S> - <P> - (<W>/<K>) - F400 - <M> - <E>[-PTC]

Where:

D	**nominal diameter [cm]**	
	40, 50, 56, 63, 71, 80, 90, 100, 112, 125	
S	**number of motor poles**	
	B2	- 2-pole motor (3000 rpm)
	B4	- 4-pole motor (1500 rpm)
P	**rated motor power [kW]**	
	as per the WEG model range available for the given diameter (see Table 1)	
W	**rotor type**	
	A3	- impeller direction: motor→impeller, 3 blades
	A6	- impeller direction: motor→impeller, 6 blades
	A9	- impeller direction: motor→impeller, 9 blades
	B3	- impeller direction: impeller→motor, 3 blades
	B6	- impeller direction: impeller→motor, 6 blades
	B9	- impeller direction: impeller→motor, 9 blades
	R6	- 100% reversible impeller, 6 blades (only this number of blades)
K	**blade setting angle [°]**	
	10-32	
M	**operating position (Installation)**	
	H	- horizontal installation
	V	- vertical installation
E	**motor efficiency class**	
	IE2	- IE2-class motor
	IE3	- IE3-class motor
PTC	**motor thermal protection**	
	Added automatically for motor power ≥11kW	

Fire resistance class F400 is a fixed value (the SEF fan is available exclusively in this class).

Example marking: **SEF 125 - B4 - 26,4kW - (A6/18) - F400 - V - IE3 - PTC**

Example marking: **SEF 56 - B2 - 4,0kW - (B6/25) - F400 - H - IE2**