

AXIAL FANS

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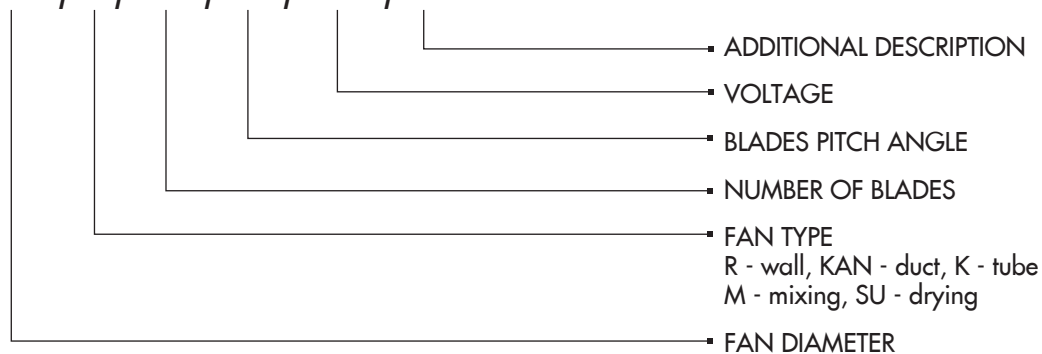
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XXX / T / Y-Y / ZZ / PPP / LL



Standard axial fans included in the catalogue are adapted to continuous operation for transferring medium that is non-toxic, non-flammable, free of friction particles and in temperatures not exceeding 40 or 60 [°C] (depending on a fan model). Furthermore, ducted fans can be made in the PT version (increased working temperature). Each fan is dynamically balanced prior to commissioning. Deltafan fans can be used in ventilation, heating, cooling and drying installations.

The diagrams of dependency of static pressure on air volume flow for all fans were developed for the air temperature $t = 15$ [°C]. The value of acoustic power is given with the consideration of corrective characteristics type A (sensitivity of the human ear). Whereas, the level of acoustic pressure is given for the distance of 1 [m] from the sound source, also with the consideration of corrective characteristics type A and the assumption of a spherical form of sound propagation.

Fans are driven directly by the shaft of the electric motor. Power values given in the catalogue refer to motor shaft power. The standard voltages are 230 and 400V, but we also produce fans with non-standard voltages on special orders. All motors are asynchronous of the isolation class F (fans can also be produced with the isolation class H on request). Motors are equipped with feet, protection class IP 66, 54 and 44 and are produced according to the following standards: PN-IEC 34-1, IEC 34 and VDE 0530. Each motor is additionally equipped with bimetal thermal overload relay protecting against overheating.

The rotational speed of axial fans equipped with single-phase motors can be adjusted steplessly by means of optional rotational speed controllers of SPA series. Similarly, fans equipped with three-phase motors can be controlled with inverters.

Materials used to build the fans include: polypropylene (PPG) reinforced with glass fibre glass (blades) and die cast aluminium (AL) (rotor hubs).

At higher environmental requirements, blades made of polyamide (PAG) reinforced with fibre glass or aluminium can be used to ensure resistance to higher temperatures and higher strengths.

Ducted fans housings are produced from high quality powder painted steel sheets. Dimensions of rounded flanges are consistent with PN-ISO 13351. Wall fan frames are produced from HIPS plastic (dia. 250-500) and amorphous ABS plastic (dia. 560-710) resistant to light and UV radiation (RAL colour 9017).

Axial fans for special purposes are properly marked.

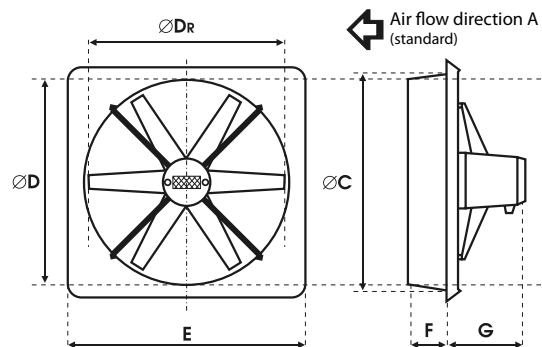
The catalogue contains description of basic production processes. Fans can be also made on individual orders.

WALL FANS

Ø250

Ø300

Ø355

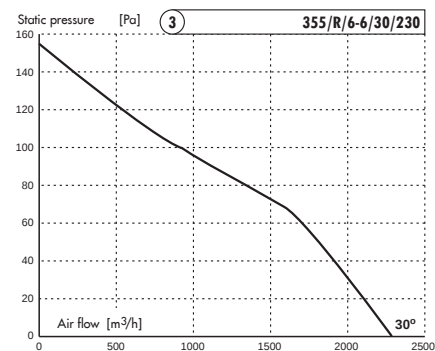
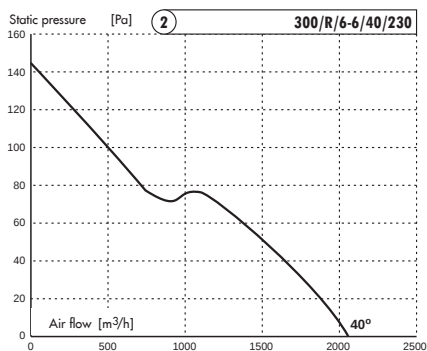
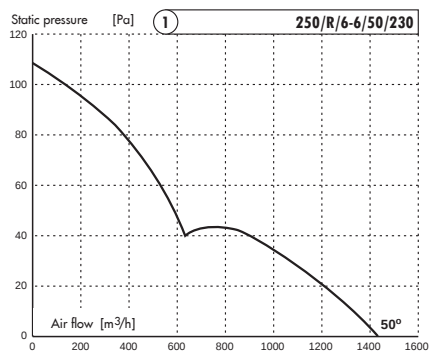
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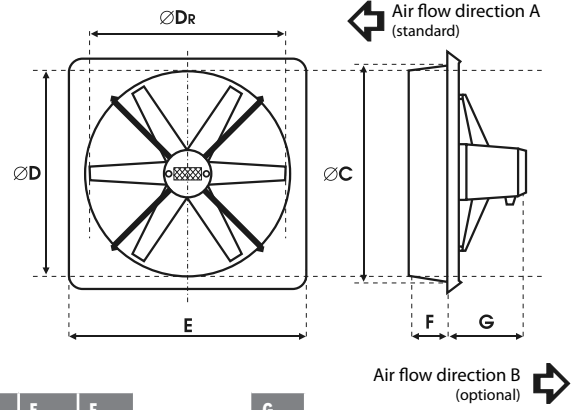
	D _R mm	D mm	C mm	E mm	F mm		G mm
Ø250	245	250	250	335	85	0,04 kW	130
Ø300	295	300	320	420	85	0,06 kW	135
Ø355	350	355	370	490	85	0,06 kW	135

	FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1	250/R/6-6/50/230	1350	1440	0,04	0,55	44	40	4	54	65	SPA-3
2	300/R/6-6/40/230	1350	2060	0,06	0,85	44	40	4,5	54	65	SPA-3
3	355/R/6-6/30/230	1350	2290	0,06	0,85	44	40	5	51	62	SPA-3

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CHARACTERISTICS



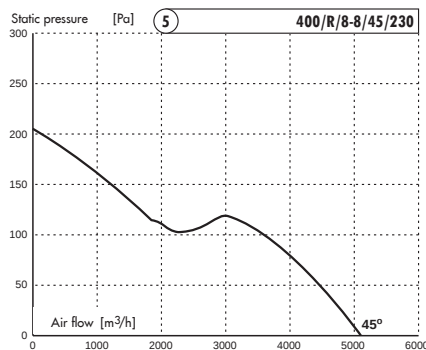
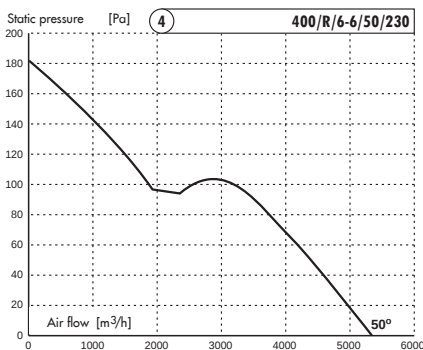
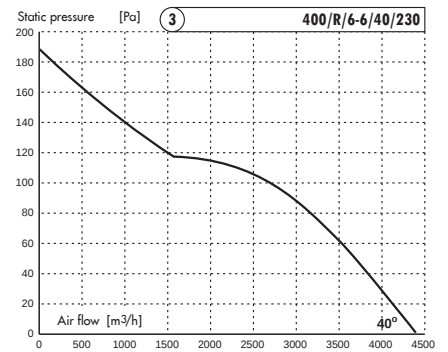
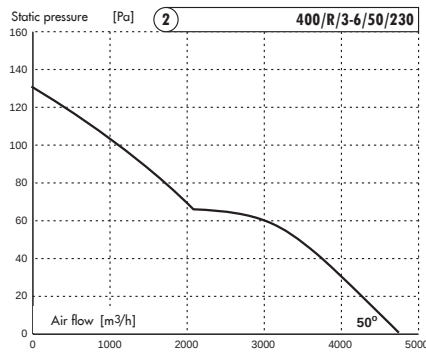
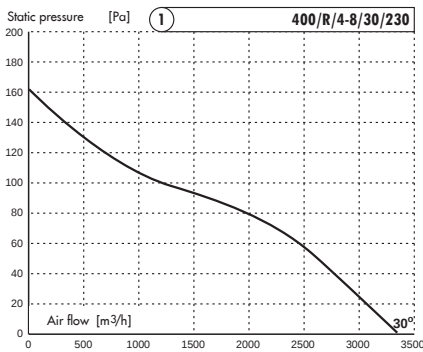


	D _R mm	D mm	C mm	E mm	F mm	G mm
Ø400	395	400	410	525	60	
						0,09 kW 145
						0,15 kW 210
						0,25 kW 210

	FAN TYPE	SPEED (RPM)	AIR FLOW (m³/h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1	400/R/4-8/30/230	1350	3330	0,09	1,4	44	40	6	55	66	SPA-3
2	400/R/3-6/50/230	1350	4550	0,15	1,3	66	60	9	61	72	SPA-3
3	400/R/6-6/40/230	1350	4400	0,15	1,3	66	60	9	61	72	SPA-3
4	400/R/6-6/50/230	1350	5350	0,25	1,8	66	60	9	65	76	SPA-3
5	400/R/8-8/45/230	1350	5120	0,25	1,8	66	60	9	64	75	SPA-3

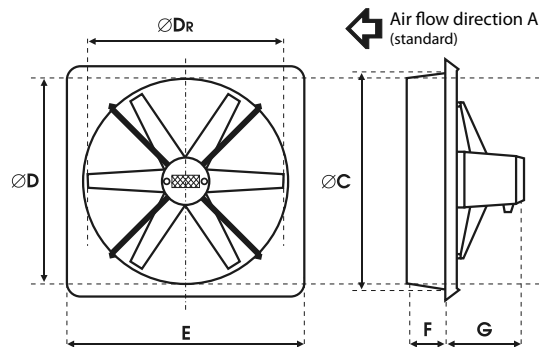
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CHARACTERISTICS



WALL FANS

Ø450

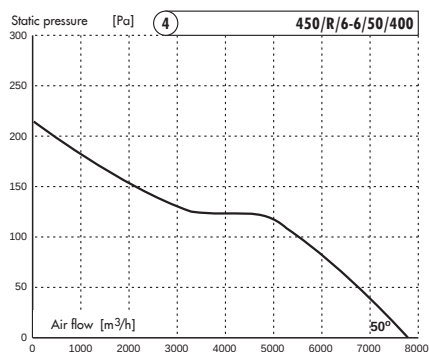
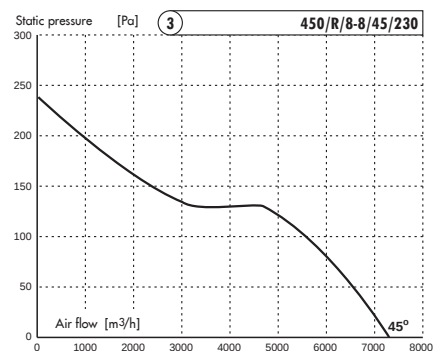
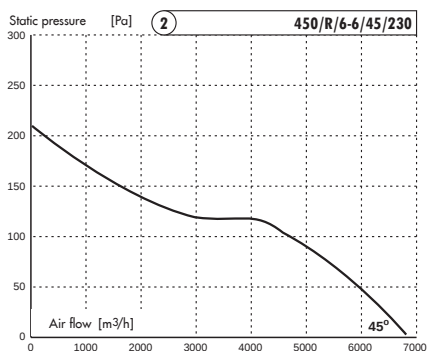
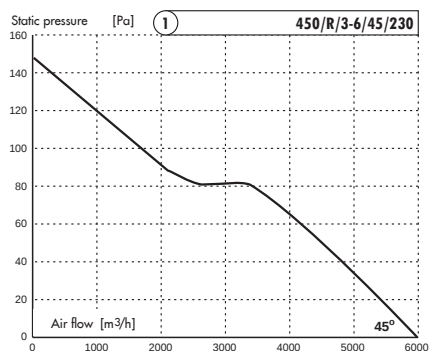
Air flow direction B
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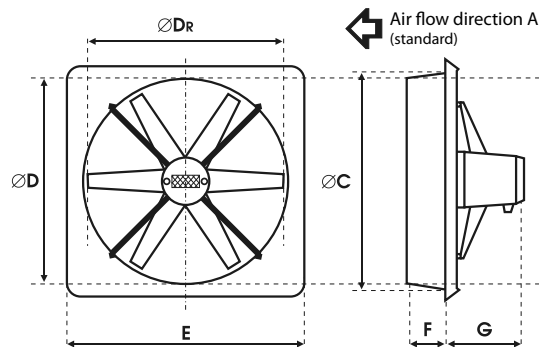
	D _R mm	D mm	C mm	E mm	F mm	G mm
Ø450	445	450	465	590	100	0,15 kW 210
						0,25 kW 210
						0,37 kW 210

	FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1	450/R/3-6/45/230	1350	6000	0,15	1,3	66	60	9	63	74	SPA-3
2	450/R/6-6/45/230	1350	6890	0,25	1,8	66	60	10	66	77	SPA-3
3	450/R/8-8/45/230	1350	7320	0,37	2,8	66	60	10	67	78	SPA-3
4	450/R/6-6/50/400	1400	7790	0,37	1,2	66	60	10	69	80	FT-1,2 / FJ-3,5

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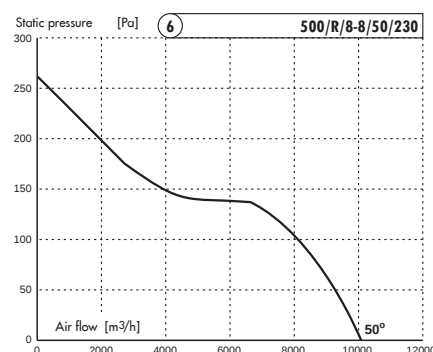
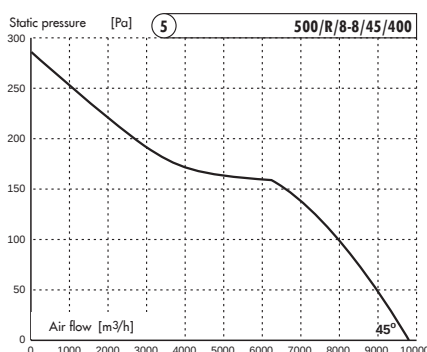
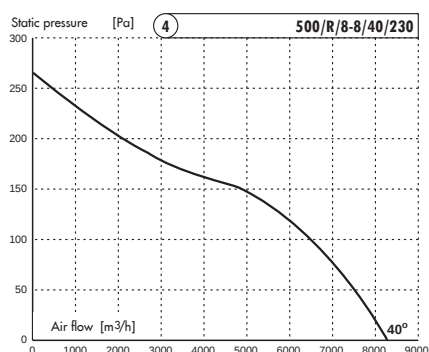
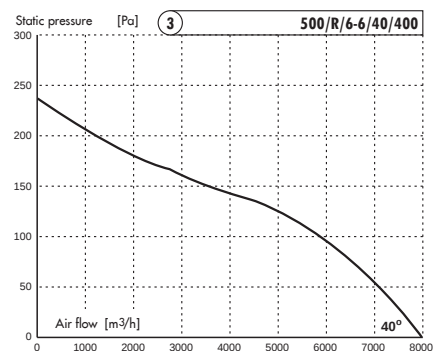
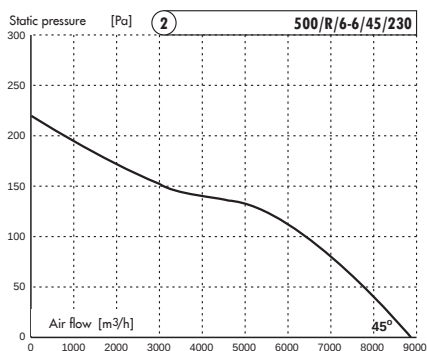
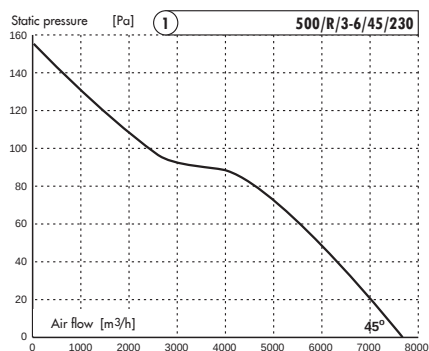


	D _R mm	D mm	C mm	E mm	F mm	G mm
0500	495	500	510	620	100	
						0,25 kW 220
						0,37 kW 220
						0,55 kW 230

	FAN TYPE	SPEED (RPM)	AIR FLOW (m³/h)	MOTOR POWER (kW)	CUR- RENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1	500/R/3-6/45/230	1350	7690	0,25	1,8	66	60	9	65	76	SPA-3
2	500/R/6-6/45/230	1350	8880	0,37	2,8	66	60	10	68	79	SPA-3
3	500/R/6-6/40/400	1400	7940	0,37	1,2	66	60	10	66	77	FT-1,2 / FJ-3,5
4	500/R/8-8/40/230	1350	8310	0,37	2,8	66	60	10	67	78	SPA-3
5	500/R/8-8/45/400	1400	9820	0,55	1,3	66	60	11	70	81	FT-2,1 / FJ-3,5
6	500/R/8-8/50/230	1350	10200	0,55	4,0	66	60	11	71	82	SPA-5

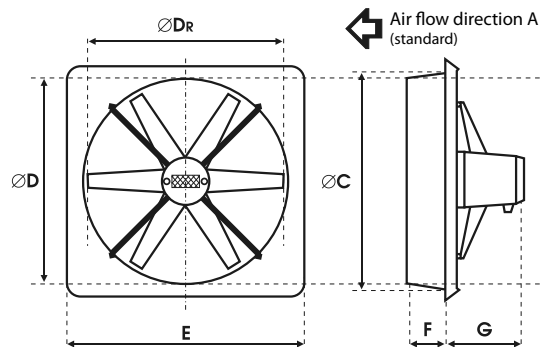
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CHARACTERISTICS



WALL FANS

Ø560

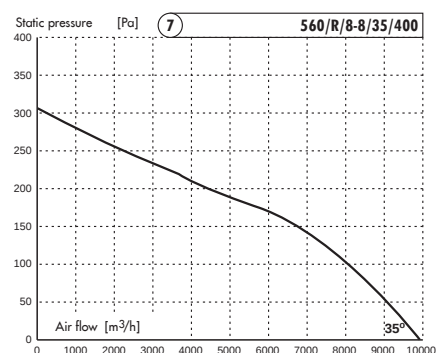
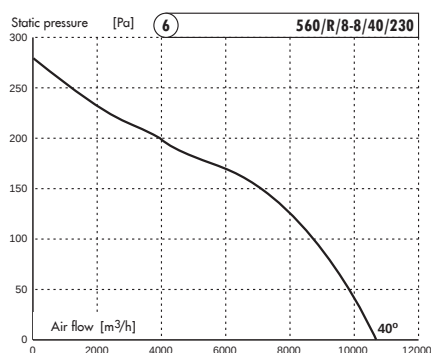
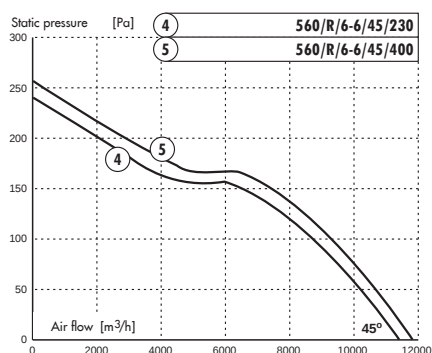
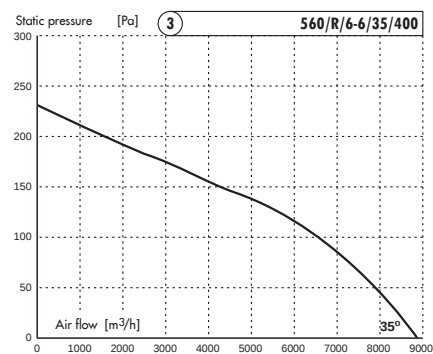
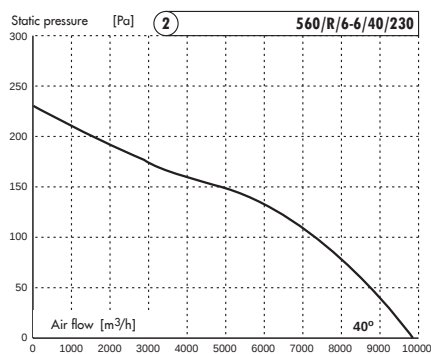
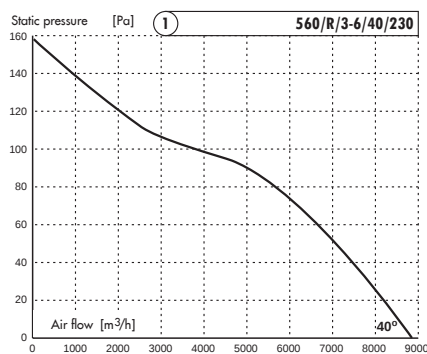


	D _R mm	D mm	C mm	E mm	F mm	G mm
0560	555	560	570	715	100	0,25 kW
						0,37 kW
						0,55 kW

	FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1	560/R/3-6/40/230	1350	8850	0,25	1,8	66	60	12	64	75	SPA-3
2	560/R/6-6/40/230	1350	9830	0,37	2,8	66	60	13	66	77	SPA-3
3	560/R/6-6/35/400	1400	8880	0,37	1,2	66	60	13	64	75	FT-1,2 / FJ-3,5
4	560/R/6-6/45/230	1350	11400	0,55	4,0	66	60	15	70	81	SPA-5
5	560/R/6-6/45/400	1400	11900	0,55	1,3	66	60	15	70	81	FT-2,1 / FJ-3,5
6	560/R/8-8/40/230	1350	10800	0,55	4,0	66	60	16	68	79	SPA-5
7	560/R/8-8/35/400	1400	9960	0,55	1,3	66	60	16	67	78	FT-2,1 / FJ-3,5

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CHARACTERISTICS



Ø630

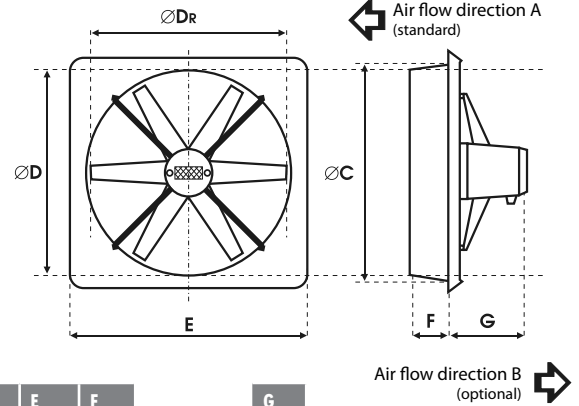
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ADDITIONAL DESCRIPTION

fan with 6-pole motor

Ø630

WALL
FANS

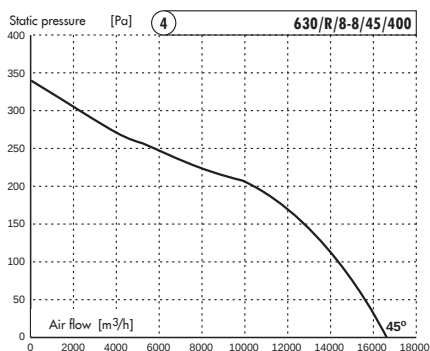
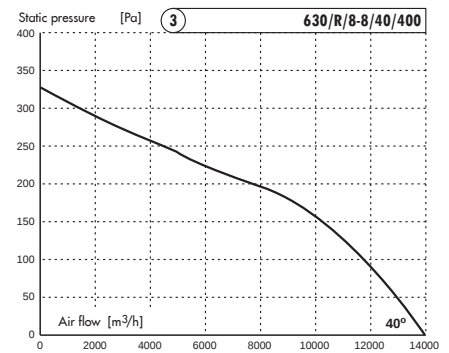
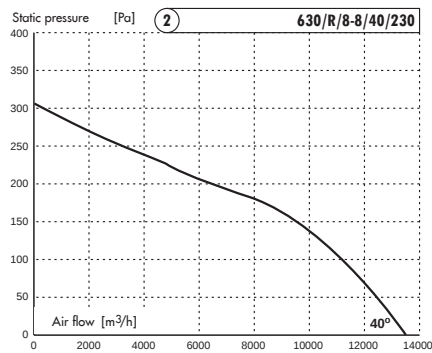
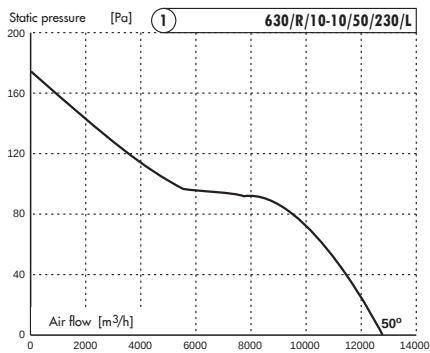


	D _R mm	D mm	C mm	E mm	F mm	G mm
Ø630	625	630	645	785	120	0,55 kW 250
						0,75 kW 240
						1,1 kW 250

	FAN TYPE	SPEED (RPM)	AIR FLOW (m³/h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1	630/R/10-10/50/230/L	900	12800	0,55	3,9	66	60	16	68	79	SPA-5
2	630/R/8-8/40/230	1350	13500	0,75	5,1	66	60	17	69	80	SPA-10
3	630/R/8-8/40/400	1400	14000	0,75	2,2	66	60	17	70	81	FT-4,1 / FJ-6,0
4	630/R/8-8/45/400	1400	16600	1,1	3,0	66	60	18	73	84	FT-4,1 / FJ-6,0

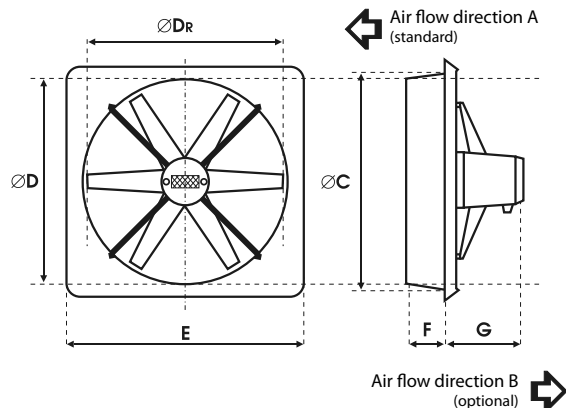
Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS



WALL FANS

Ø710

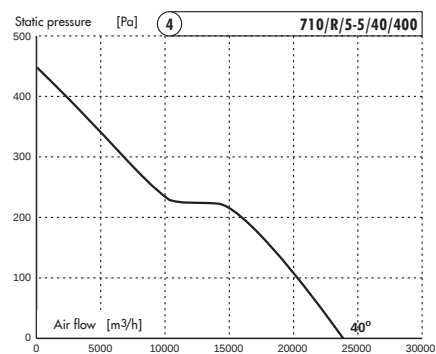
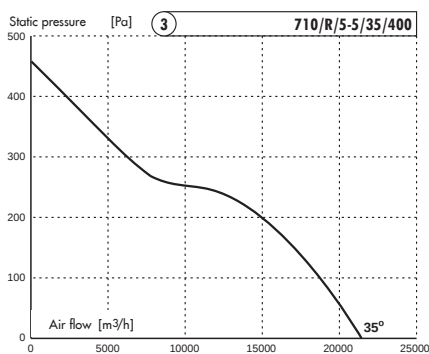
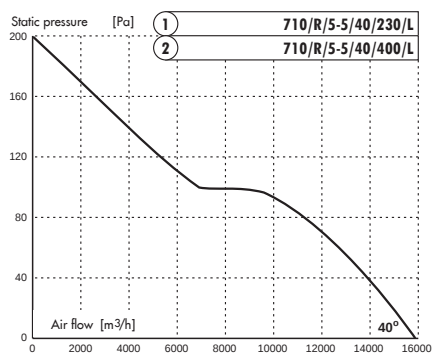


	D _R mm	D mm	C mm	E mm	F mm	G mm
0710	705	710	730	860	125	
						0,55 kW / 230V 270
						0,55 kW / 400V 260
						1,5 kW 310
						2,2 kW 320

FAN TYPE	SPEED (RPM)	AIR FLOW (m³/h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER Lw dB(A)	SUITABLE SPEED CONTROLLER
1 710/R/5-5/40/230/L	900	15800	0,55	4,3	66	60	19	68	79	SPA-5
2 710/R/5-5/40/400/L	900	15800	0,55	2,3	66	60	19	68	79	FT-4,1 / FJ-6,0
3 710/R/5-5/35/400	1400	21500	1,5	4,3	66	60	24	75	86	FT-5,4 / FJ-9,6
4 710/R/5-5/40/400	1350	23800	2,2	5,8	66	60	28	75	86	FT-6,9 / FJ-9,6

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CHARACTERISTICS



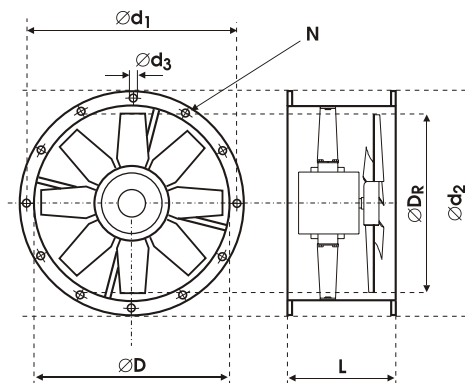
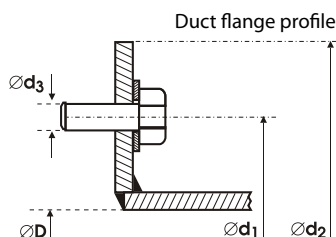
DUCT FANS

Ø315

N / H

ADDITIONAL DESCRIPTION

- fan with 2-pole motor
- fan with 4-pole motor



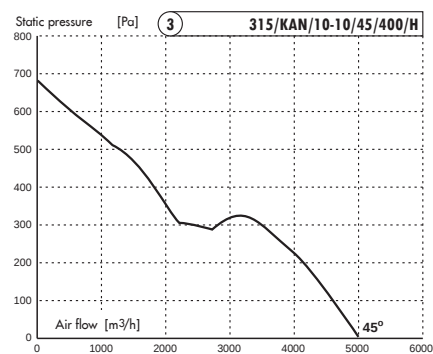
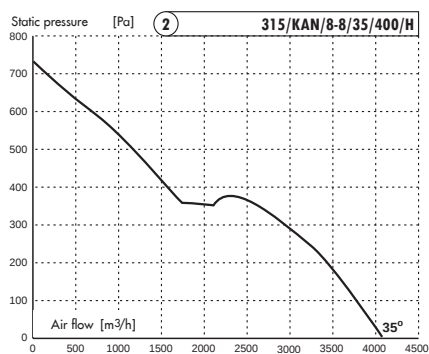
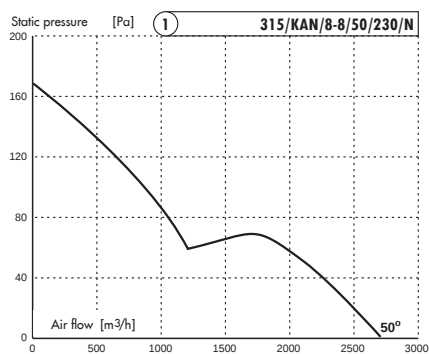
d ₃	d ₁ mm	d ₂ mm	D _R mm	D mm	L mm	Mount. holes N
M10	366	400	305	315	450	8

FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1 315/KAN/8-8/50/230/N	1350	2730	0,15	1,3	66	60	17	59	70	SPA-3
2 315/KAN/8-8/35/400/H	2800	4050	0,55	1,4	66	60	17	67	78	FT-2,1 / FJ-3,5
3 315/KAN/10-10/45/400/H	2800	4990	0,75	1,8	66	60	20	72	83	FT-2,1 / FJ-3,5

Fans in PT version (increased working temperature) are available on special orders

Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS



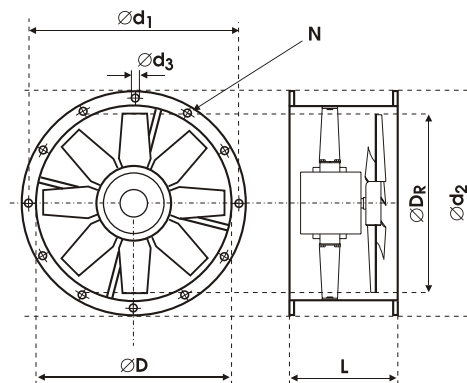
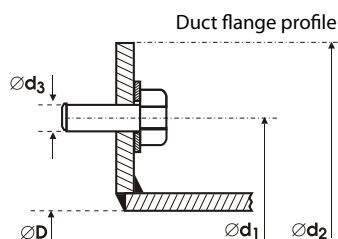
DUCT FANS

Ø355

N / H

ADDITIONAL DESCRIPTION

- fan with 2-pole motor
- fan with 4-pole motor



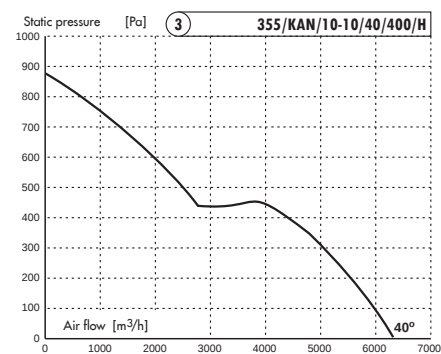
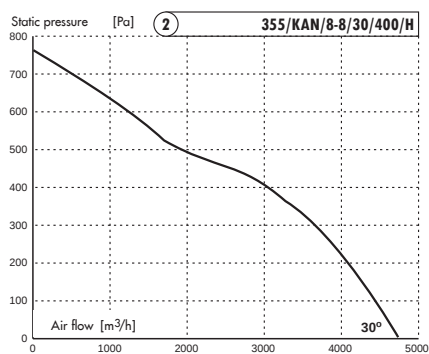
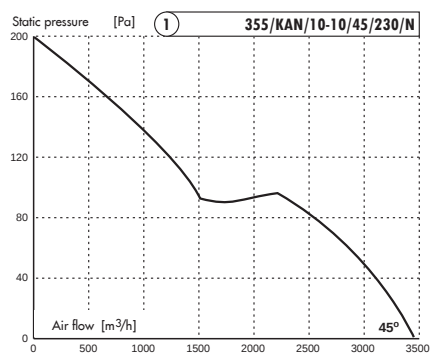
d ₃	d ₁ mm	d ₂ mm	D _R mm	D mm	L mm	Mount. holes N
M10	405	450	345	355	450	8

FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1 355/KAN/10-10/45/230/N	1350	3470	0,15	1,3	66	60	20	60	71	SPA-3
2 355/KAN/8-8/30/400/H	2800	4520	0,75	1,8	66	60	20	67	78	FT-1,9 / FJ-3,5
3 355/KAN/10-10/40/400/H	2800	6440	1,1	2,5	66	60	23	73	84	FT-4,1 / FJ-6,0

Fans in PT version (increased working temperature) are available on special orders

Information about measuring conditions of technical parameters are presented on third page of this catalogue

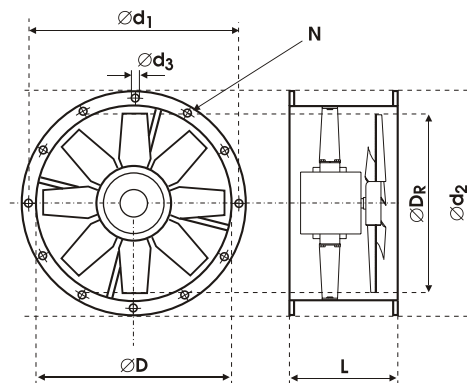
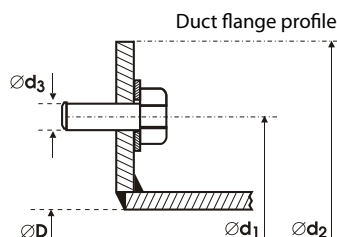
CHARACTERISTICS



DUCT FANS

Ø400

N / H ADDITIONAL DESCRIPTION
 ■ fan with 2-pole motor
 ■ fan with 4-pole motor



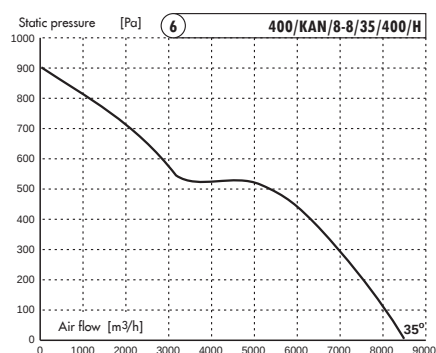
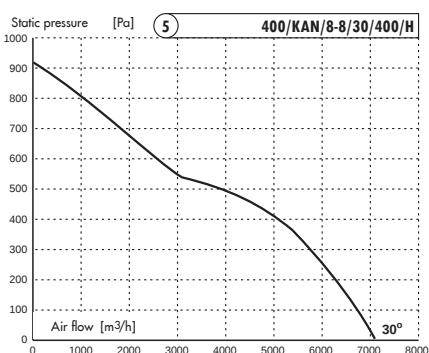
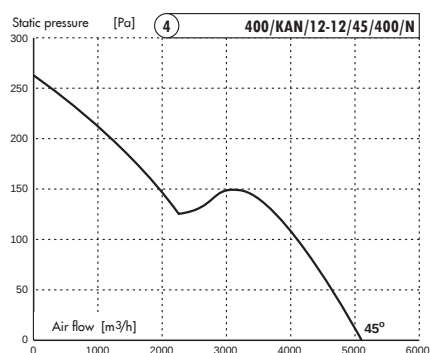
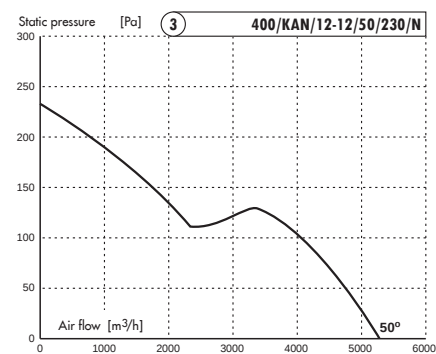
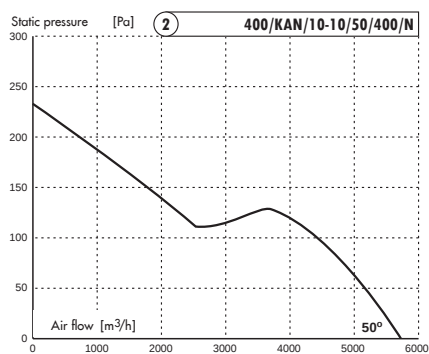
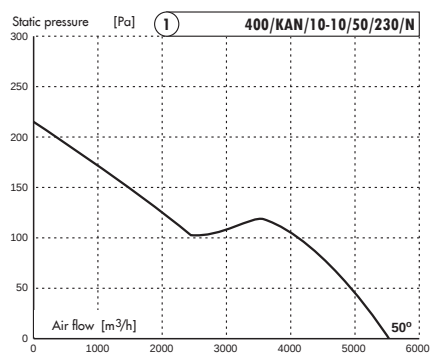
d ₃	d ₁ mm	d ₂ mm	D _R mm	D mm	L mm	Mount. holes N
M10	448	500	390	400	450	12

FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER Lw dB(A)	SUITABLE SPEED CONTROLLER
1 400/KAN/10-10/50/230/N	1350	5530	0,37	2,8	66	60	23	66	77	SPA-3
2 400/KAN/10-10/50/400/N	1400	5730	0,37	1,2	66	60	22	66	77	FT-1,2 / FJ-3,5
3 400/KAN/12-12/50/230/N	1350	5320	0,37	2,8	66	60	22	65	76	SPA-3
4 400/KAN/12-12/45/400/N	1400	5110	0,37	1,2	66	60	23	64	75	FT-1,2 / FJ-3,5
5 400/KAN/8-8/30/400/H	2800	7120	1,1	2,5	66	60	25	71	82	FT-4,1 / FJ-6,0
6 400/KAN/8-8/35/400/H	2800	8520	1,5	3,3	66	60	24	75	86	FT-4,1 / FJ-6,0

i Fans in PT version (increased working temperature) are available on special orders

■ Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS



DUCT FANS

Ø450

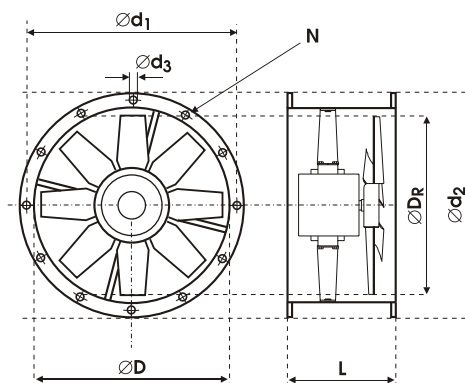
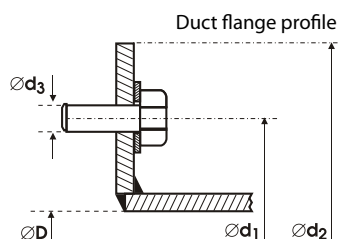
DUCT
FANS

Ø450

N / H

ADDITIONAL DESCRIPTION

- fan with 2-pole motor
- fan with 4-pole motor



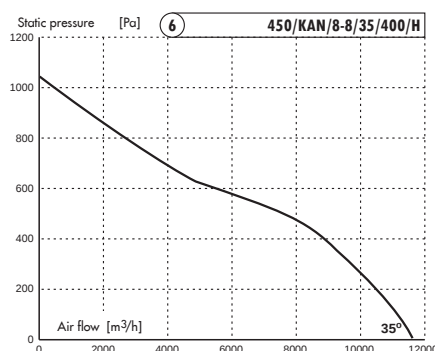
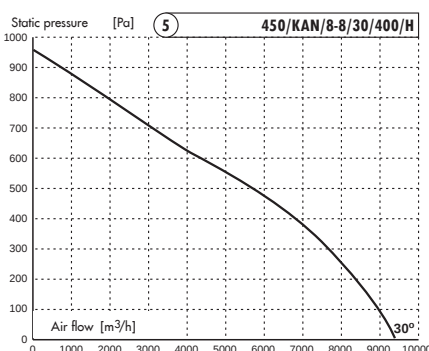
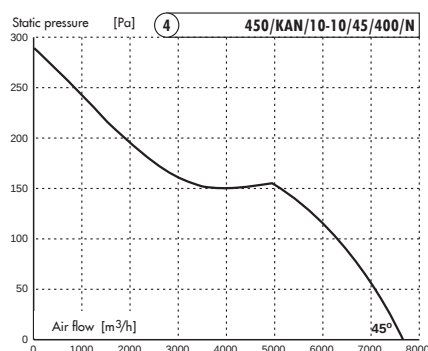
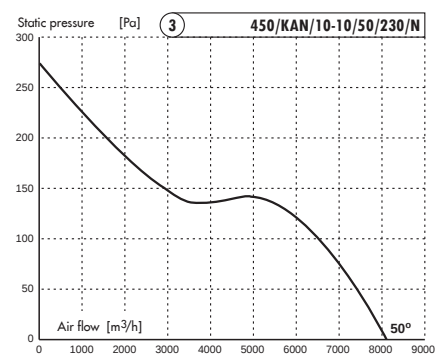
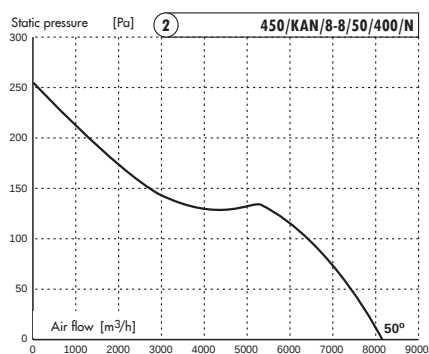
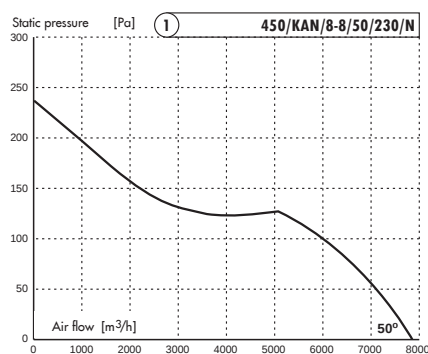
d ₃	d ₁ mm	d ₂ mm	D _R mm	D mm	L mm	Mount. holes N
M10	497	550	440	450	450	12

FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1 450/KAN/8-8/50/230/N	1350	7910	0,55	4,0	66	60	23	69	80	SPA-5
2 450/KAN/8-8/50/400/N	1400	8200	0,55	1,3	66	60	22	70	81	FT-2,1 / FJ-3,5
3 450/KAN/10-10/50/230/N	1350	8130	0,55	4,0	66	60	23	70	81	SPA-5
4 450/KAN/10-10/45/400/N	1400	7750	0,55	1,3	66	60	22	69	80	FT-2,1 / FJ-3,5
5 450/KAN/8-8/30/400/H	2800	9500	1,5	3,3	66	60	27	73	84	FT-4,1 / FJ-6,0
6 450/KAN/8-8/35/400/H	2800	11700	2,2	4,8	66	60	31	78	89	FT-5,4 / FJ-9,6

Fans in PT version (increased working temperature) are available on special orders

Information about measuring conditions of technical parameters are presented on third page of this catalogue

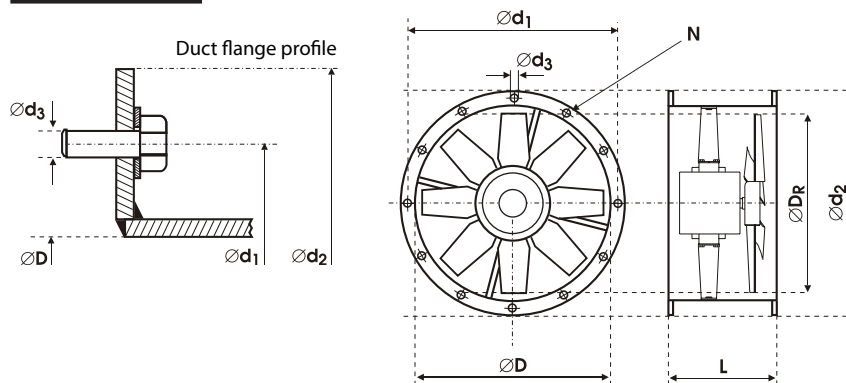
CHARACTERISTICS



DUCT FANS

Ø500

N / H ADDITIONAL DESCRIPTION
 ■ fan with 2-pole motor
 ■ fan with 4-pole motor



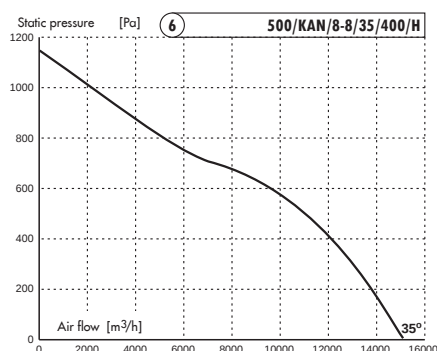
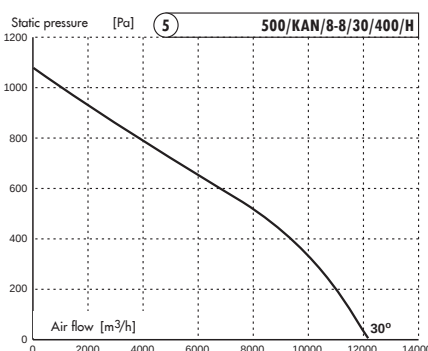
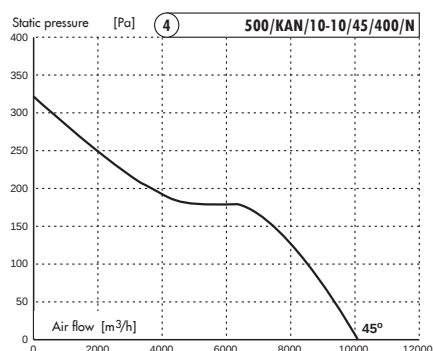
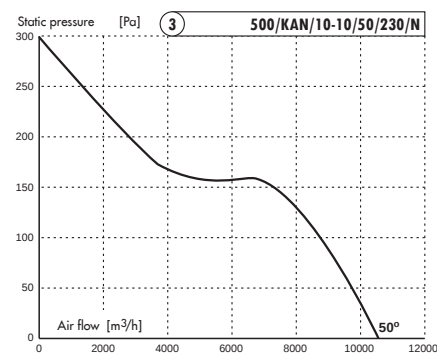
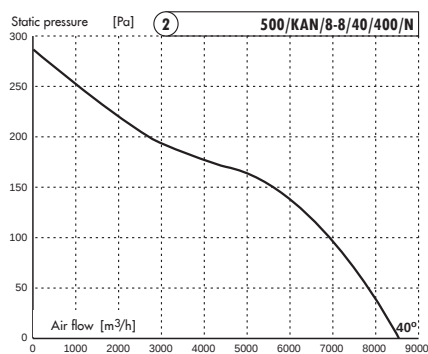
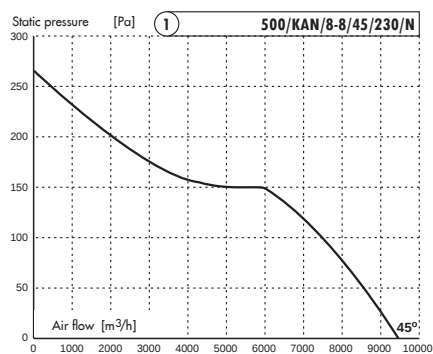
d_3	d_1 mm	d_2 mm	D_R mm	D mm	L mm	Mount. holes N
M10	551	604	490	500	450	12

FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER Lw dB(A)	SUITABLE SPEED CONTROLLER
1 500/KAN/8-8/45/230/N	1350	9470	0,55	4,0	66	60	29	69	80	SPA-5
2 500/KAN/8-8/40/400/N	1400	8620	0,55	1,3	66	60	30	67	78	FT-2,1 / FJ-3,5
3 500/KAN/10-10/50/230/N	1350	10500	0,75	5,1	66	60	29	72	83	SPA-10
4 500/KAN/10-10/45/400/N	1400	10100	0,75	2,2	66	60	30	71	82	FT-4,1 / FJ-6,0
5 500/KAN/8-8/30/400/H	2800	12300	2,2	4,8	66	60	31	75	86	FT-5,4 / FJ-9,6
6 500/KAN/8-8/35/400/H	2800	15100	3,0	6,9	66	60	35	80	91	FT-6,9

i Fans in PT version (increased working temperature) are available on special orders

g Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS



DUCT FANS

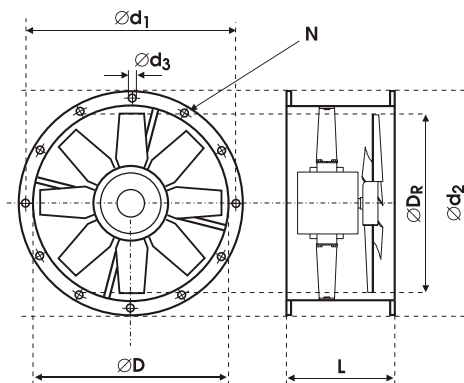
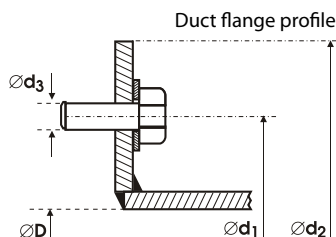
Ø560

Ø630

N / L

ADDITIONAL DESCRIPTION

- fan with 6-pole motor
- fan with 4-pole motor



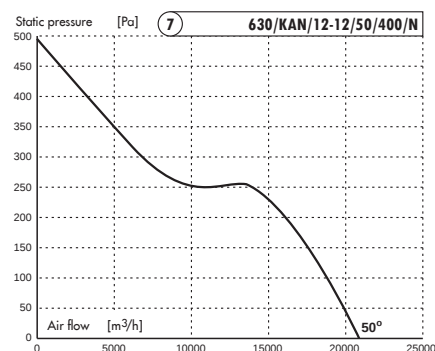
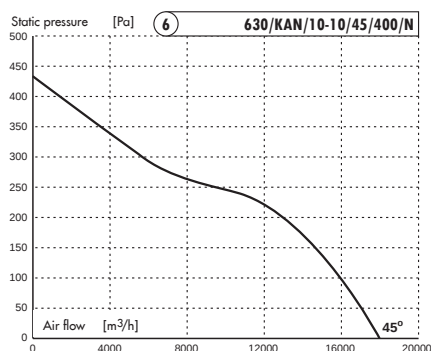
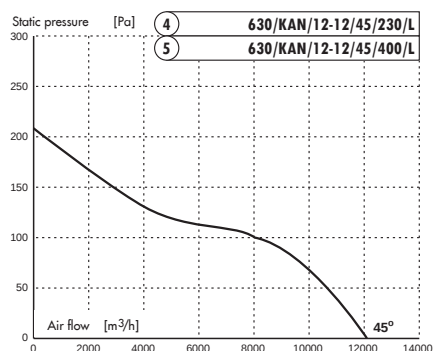
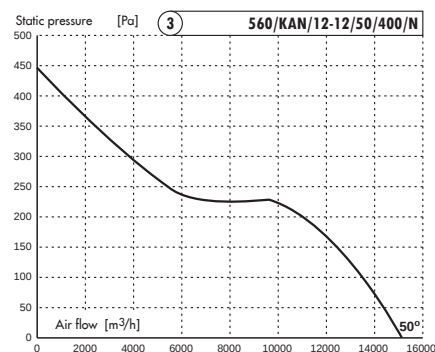
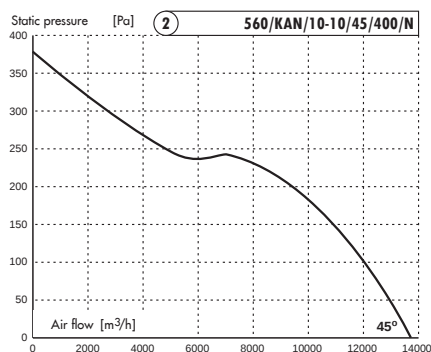
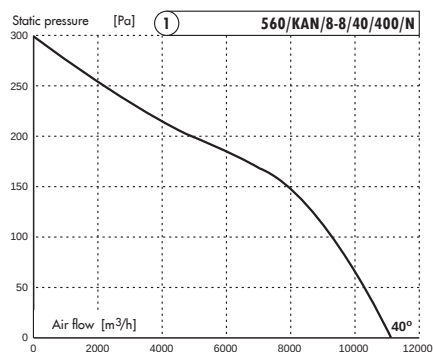
	d ₃	d ₁ mm	d ₂ mm	D _R mm	D mm	L mm	Mount. holes N
0560	M12	629	664	550	560	450	16
0630	M12	698	734	620	630	450	16

FAN TYPE	SPEED (RPM)	AIR FLOW (m³/h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER Lw dB(A)	SUITABLE SPEED CONTROLLER
1 560/KAN/8-8/40/400/N	1400	11200	0,75	2,2	66	60	33	69	80	FT-4,1 / FJ-6,0
2 560/KAN/10-10/45/400/N	1400	13800	1,1	3,0	66	60	34	74	85	FT-4,1 / FJ-6,0
3 560/KAN/12-12/50/400/N	1400	15200	1,5	3,9	66	60	36	76	87	FT-5,4 / FJ-9,6
4 630/KAN/12-12/45/230/L	900	12200	0,55	3,9	66	60	35	67	78	SPA-5
5 630/KAN/12-12/45/400/L	900	12200	0,55	2,3	66	60	35	67	78	FT-4,1 / FJ-6,0
6 630/KAN/10-10/45/400/N	1400	18100	1,5	4,3	66	60	39	75	86	FT-5,4 / FJ-9,6
7 630/KAN/12-12/50/400/N	1400	21000	2,2	5,8	66	60	43	79	90	FT-6,9

Fans in PT version (increased working temperature) are available on special orders

Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS



DUCT FANS

CONTRA-ROTATING AXIAL DUCT FAN

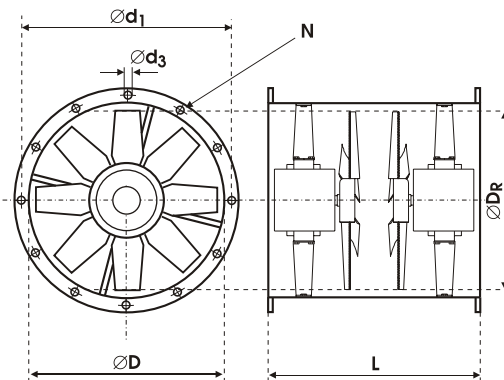
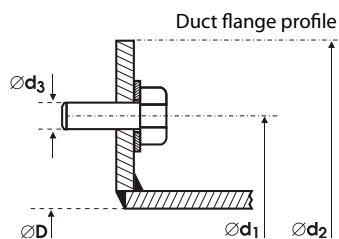
Ø315

Ø355

TU / N / H

ADDITIONAL DESCRIPTION

- fan with 2-pole motor
- fan with 4-pole motor
- contra-rotating axial duct fan



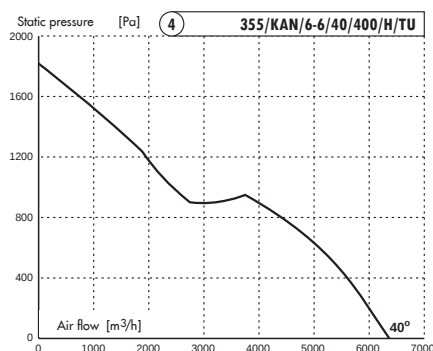
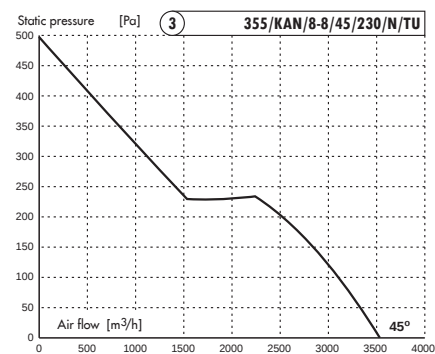
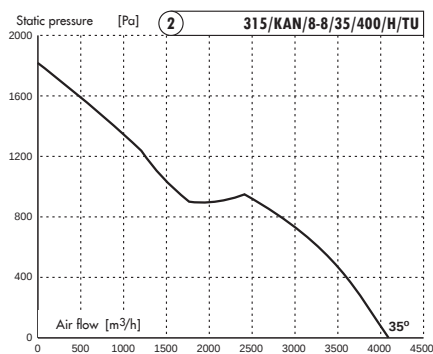
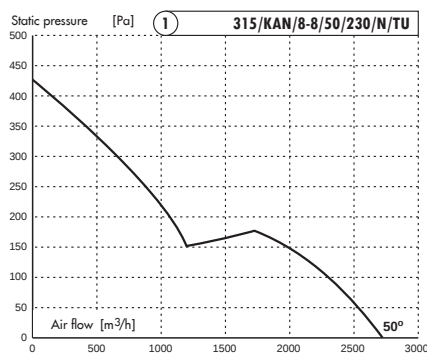
	d ₃	d ₁ mm	d ₂ mm	D _R mm	D mm	L mm	Mount. holes N
Ø315	M10	366	400	305	315	900	8
Ø355	M10	405	450	345	355	900	8

FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1 315/KAN/8-8/50/230/N/TU	1350	2730	2x0,15	2,6	66	60	32	62	73	SPA-3
2 315/KAN/8-8/35/400/H/TU	2800	4050	2x0,55	2,8	66	60	32	71	82	FT-4,1 / FJ-6,0
3 355/KAN/8-8/45/230/N/TU	1350	3540	2x0,15	2,6	66	60	34	63	74	SPA-3
4 355/KAN/6-6/40/400/H/TU	2800	6270	2x0,75	3,6	66	60	37	76	87	FT-4,1 / FJ-6,0

i Fans in PT version (increased working temperature) are available on special orders

g Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS



DUCT FANS

CONTRA-ROTATING AXIAL DUCT FAN

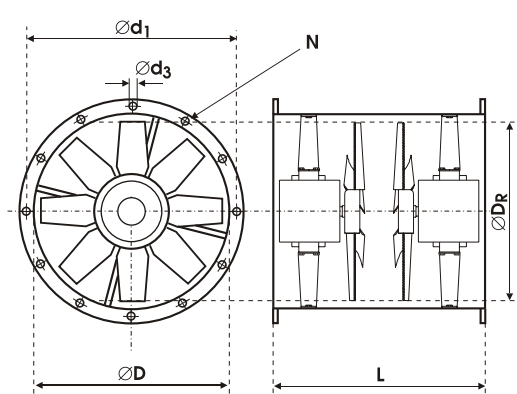
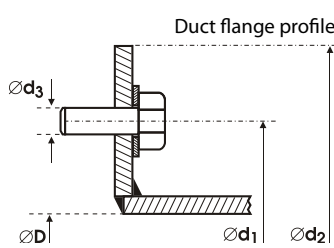
Ø400

Ø450

TU / N / H

ADDITIONAL DESCRIPTION

- fan with 2-pole motor
- fan with 4-pole motor
- contra-rotating axial duct fan



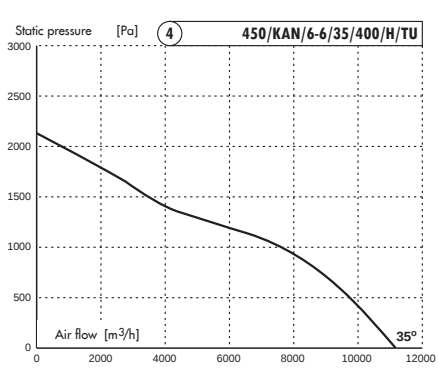
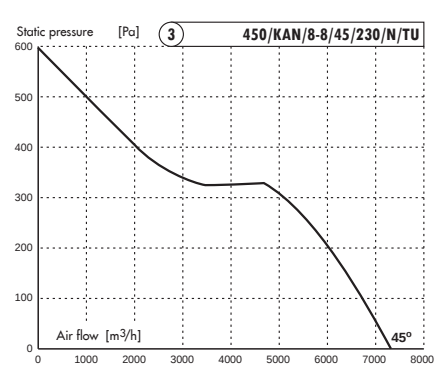
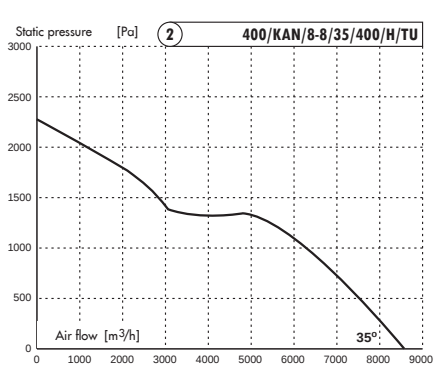
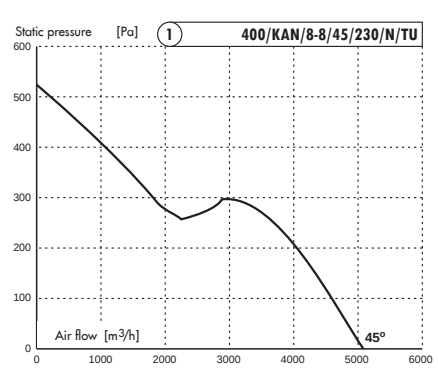
	d ₃	d ₁ mm	d ₂ mm	D _R mm	D mm	L mm	Mount. holes N
Ø400	M10	448	500	390	400	900	12
Ø450	M10	497	550	440	450	900	12

FAN TYPE	SPEED (RPM)	AIR FLOW (m³/h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER Lw dB(A)	SUITABLE SPEED CONTROLLER
1 400/KAN/8-8/45/230/N/TU	1350	5120	2x0,25	3,6	66	60	40	67	78	SPA-5
2 400/KAN/8-8/35/400/H/TU	2800	8520	2x1,5	6,6	66	60	44	78	89	FT-6,9 / FJ-9,6
3 450/KAN/8-8/45/230/N/TU	1350	7320	2x0,37	5,6	66	60	45	71	82	SPA-10
4 450/KAN/6-6/35/400/H/TU	2800	11200	2x1,5	6,6	66	60	52	80	91	FT-6,9 / FJ-9,6

Fans in PT version (increased working temperature) are available on special orders

Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS



DUCT FANS

CONTRA-ROTATING AXIAL DUCT FAN

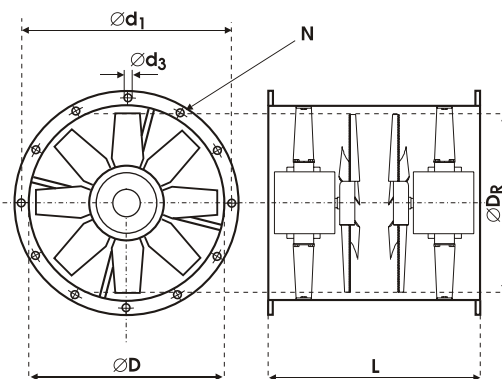
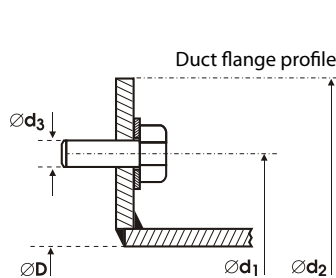
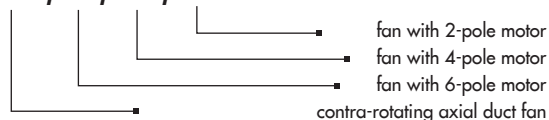
Ø500

Ø560

Ø630

TU / L / N / H

ADDITIONAL DESCRIPTION



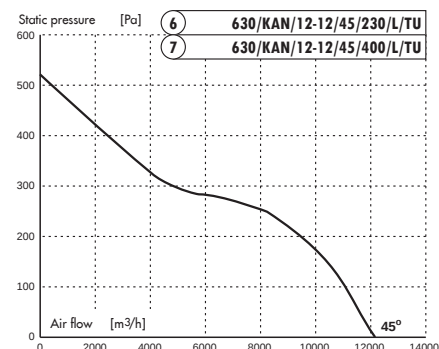
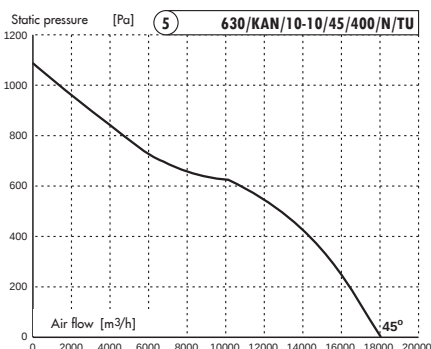
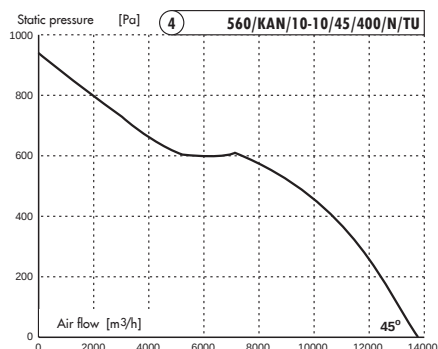
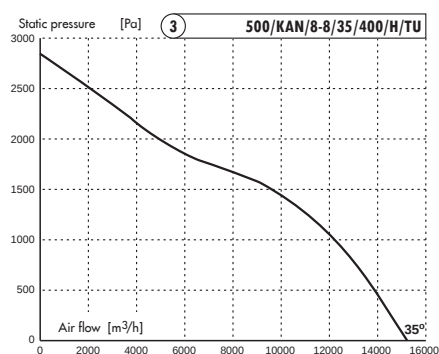
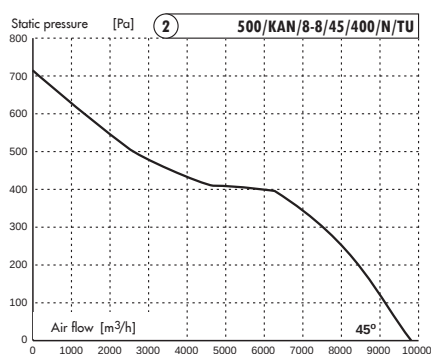
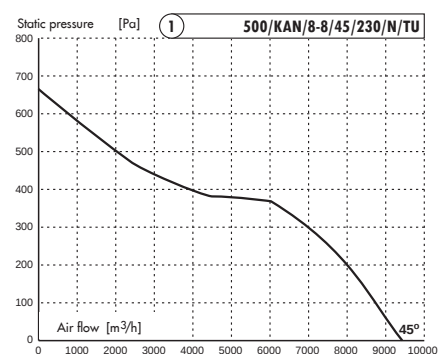
	d ₃	d ₁ mm	d ₂ mm	D _R mm	D mm	L mm	Mount. holes N
Ø500	M10	551	604	490	500	900	12
Ø560	M12	629	664	550	560	900	16
Ø630	M12	698	734	620	630	900	16

	FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRES- SURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1	500/KAN/8-8/45/230/N/TU	1350	9470	2x0,55	8,0	66	60	53	73	84	SPA-10
2	500/KAN/8-8/45/400/N/TU	1400	9820	2x0,55	2,6	66	60	49	73	84	FT-4,1 / FJ-6,0
3	500/KAN/8-8/35/400/H/TU	2800	15200	2x3,0	13,8	66	60	69	83	94	-
4	560/KAN/10-10/45/400/N/TU	1400	13800	2x1,1	6,0	66	60	62	77	88	FT-6,9
5	630/KAN/10-10/45/400/N/TU	1400	18100	2x1,5	7,8	66	60	65	78	89	FT-8,8
6	630/KAN/12-12/45/230/L/TU	900	12200	2x0,55	7,8	66	60	67	70	81	SPA-10
7	630/KAN/12-12/45/400/L/TU	900	12200	2x0,55	4,6	66	60	67	70	81	FT-5,4 / FJ-9,6

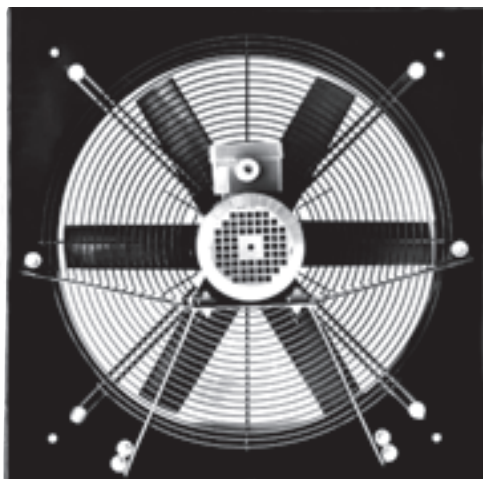
Fans in PT version (increased working temperature) are available on special orders

Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS



TECHNICAL DATA



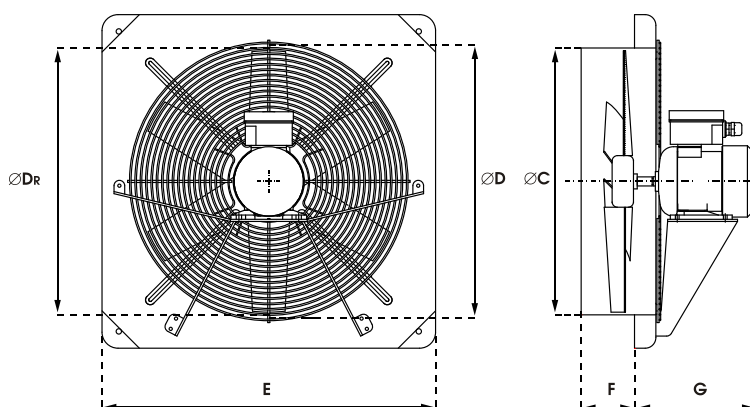
i Our axial explosion-proof fans are designed to operate in spaces, where there is a danger of explosive atmosphere occurrence as a result of gas, air, mist and vapour mixtures (device group II, category 2). The fans are driven directly by an electric motor shaft. Motors have the reinforced construction "e".

Wall fans in the explosion-proof version meet the requirements of the EU Directive 94/9/EC "ATEX" regarding devices designed to be used in explosion endangered areas. (II 2G EEx e II T3 or T4).

The fans are produced from the following materials: the housing is made of 2mm steel coated with an antielectrostatic paint, the rotor with vanes are made of anti-static polyamide, while the hub is made of silumin, the protective mesh of the IP20 protection grade, with the asynchronous motor adapted for continuous operation (S-1) in explosion endangered areas.

The explosion-proof fans should be used in the ambient temperature ranging from -20°C to $+40^{\circ}\text{C}$. The fans are designed to provide the IP56 protection grade and isolation class F. The motors are not suited for rotational speed regulation. All models are available in the three-phase version only.

	D _R mm	D mm	C mm	E mm	F mm	G mm
Ø355 / 0,12 kW	350	355	370	490	85	205,3
Ø400 / 0,18 kW	395	400	410	525	60	223,5
Ø400 / 0,25 kW	395	400	410	525	60	223,5
Ø450 / 0,18 kW	445	450	465	590	100	221,5
Ø450 / 0,25 kW	445	450	465	590	100	229,0
Ø500 / 0,25 kW	495	500	510	620	100	229,5
Ø500 / 0,37 kW	495	500	510	620	100	250,0
Ø560 / 0,25 kW	555	560	570	715	100	230,9
Ø560 / 0,37 kW	555	560	570	715	100	251,0
Ø560 / 0,55 kW	555	560	570	715	100	257,0
Ø600 / 0,18 kW	595	600	615	780	110	235,9
Ø600 / 0,55 kW	595	600	615	780	110	262,0
Ø600 / 0,75 kW	595	600	615	780	110	274,0
Ø630 / 0,55 kW	625	630	645	785	120	269,0
Ø630 / 0,75 kW	625	630	645	785	120	269,0



TECHNICAL DATA

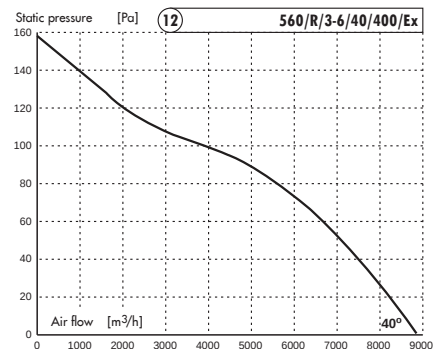
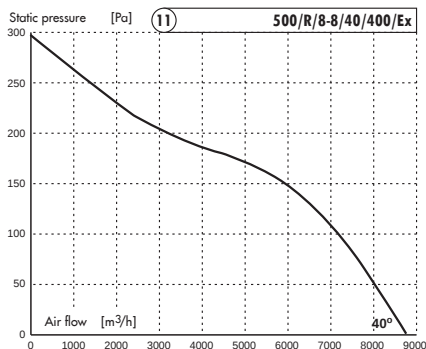
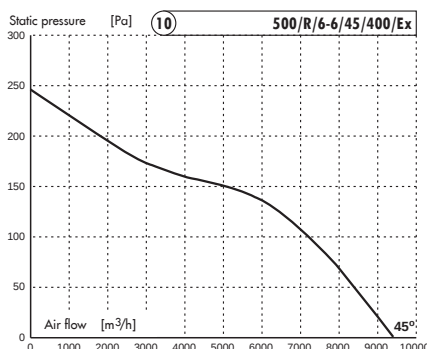
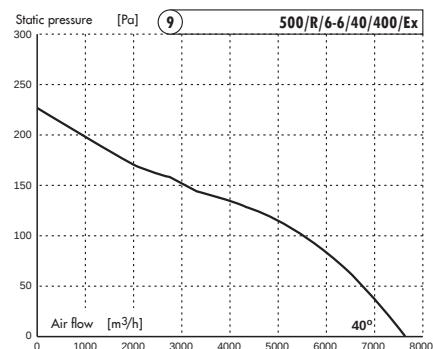
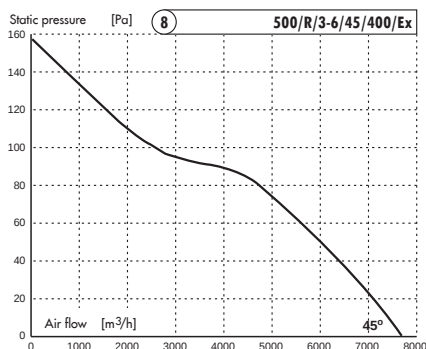
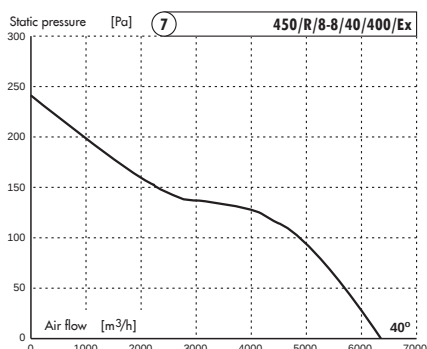
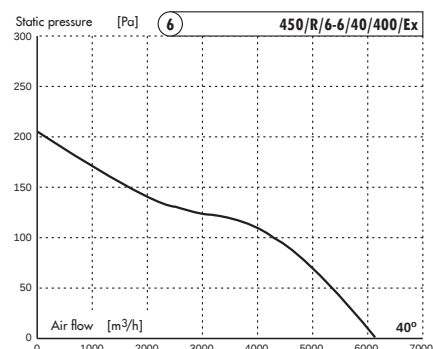
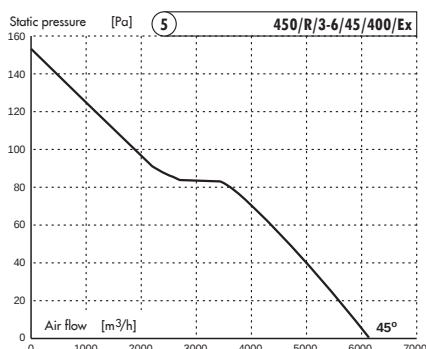
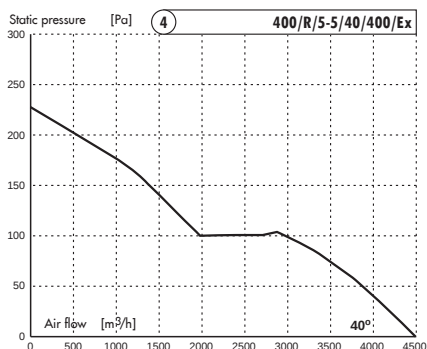
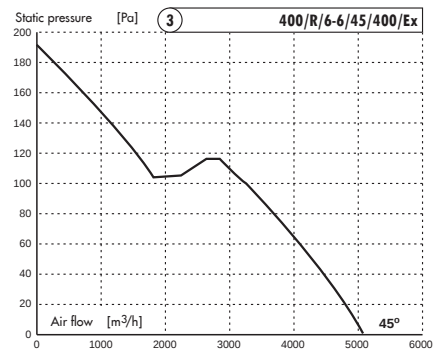
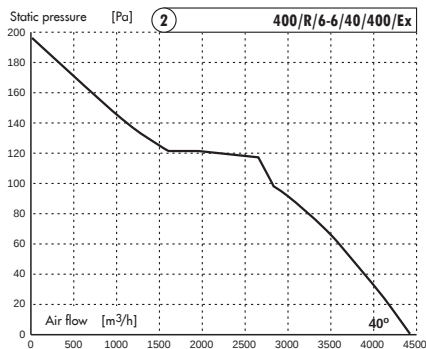
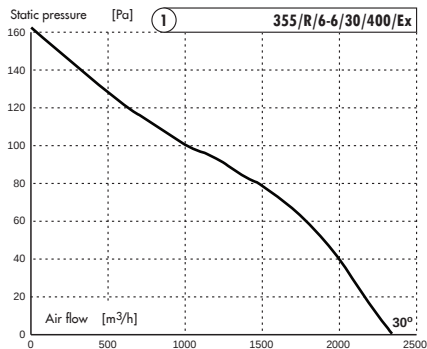
- explosion proof fan
- fan with 6-pole motor

FAN TYPE	SPEED (RPM)	AIR FLOW (m³/h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	t _E (s)	TEMP. CLASS	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)
1 355/R/6-6/30/400/Ex	1380	2340	0,12	0,5	56	40	18,6	T4	9	54	65
2 400/R/6-6/40/400/Ex	1370	4470	0,18	0,6	56	40	14,2	T4	10	60	71
3 400/R/6-6/45/400/Ex	1370	5020	0,18	0,6	56	40	14,2	T4	10	59	70
4 400/R/5-5/40/400/Ex	1350	4500	0,25	0,8	56	40	41,7	T3	11	57	68
5 450/R/3-6/45/400/Ex	1370	6090	0,18	0,6	56	40	14,2	T4	11	61	72
6 450/R/6-6/40/400/Ex	1370	6130	0,18	0,6	56	40	14,2	T4	12	61	72
7 450/R/8-8/40/400/Ex	1350	6340	0,25	0,8	56	40	41,7	T3	13	62	73
8 500/R/3-6/45/400/Ex	1350	7690	0,25	0,8	56	40	41,7	T3	12	63	74
9 500/R/6-6/40/400/Ex	1350	7660	0,25	0,8	56	40	41,7	T3	13	62	73
10 500/R/6-6/45/400/Ex	1420	9340	0,37	1,3	56	40	20,4	T3	14	65	76
11 500/R/8-8/40/400/Ex	1420	8740	0,37	1,3	56	40	20,4	T3	15	64	75
12 560/R/3-6/40/400/Ex	1350	8850	0,25	0,8	56	40	41,7	T3	15	64	75
13 560/R/6-6/40/400/Ex	1420	10300	0,37	1,3	56	40	20,4	T3	17	66	77
14 560/R/6-6/45/400/Ex	1420	12000	0,55	1,6	56	40	16,5	T3	18	69	80
15 560/R/8-8/40/400/Ex	1420	11300	0,55	1,6	56	40	16,5	T3	18	67	78
16 600/R/3-6/30/400/Ex	1370	7820	0,18	0,6	56	40	14,2	T4	19	62	73
17 600/R/6-6/40/400/Ex	1420	12700	0,55	1,6	56	40	16,5	T3	20	68	79
18 600/R/6-6/45/400/Ex	1370	14300	0,75	2,1	56	40	20,0	T3	22	70	81
19 600/R/8-8/40/400/Ex	1420	12900	0,55	1,6	56	40	16,5	T3	23	68	79
20 630/R/5-5/45/400/L/Ex	880	12200	0,55	1,7	56	40	22,0	T3	23	62	73
21 630/R/8-8/40/400/Ex	1370	13700	0,75	2,1	56	40	20,0	T3	24	68	79

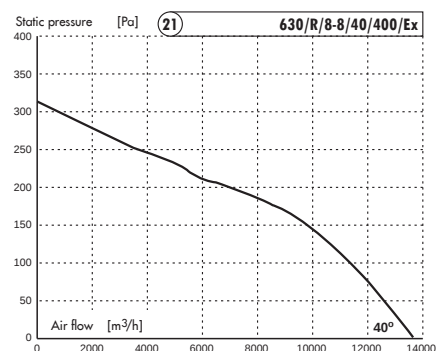
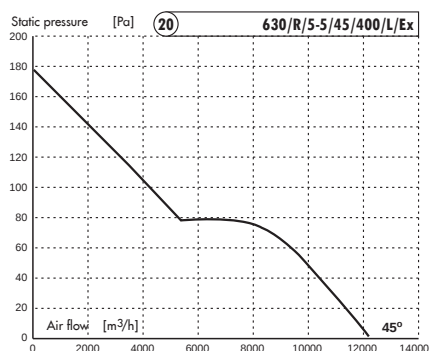
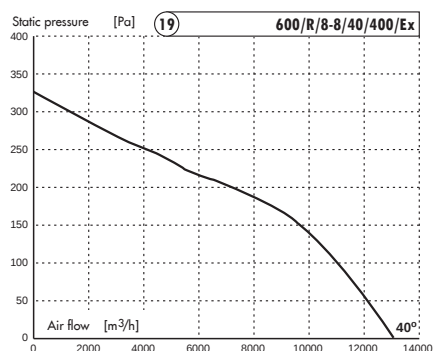
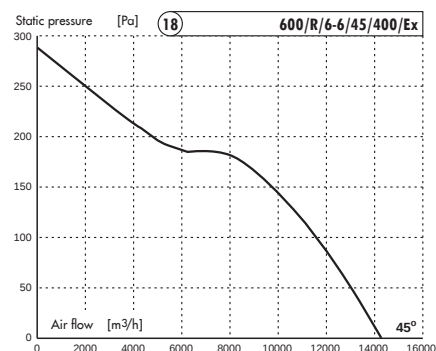
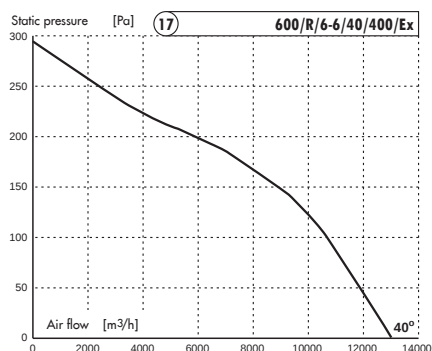
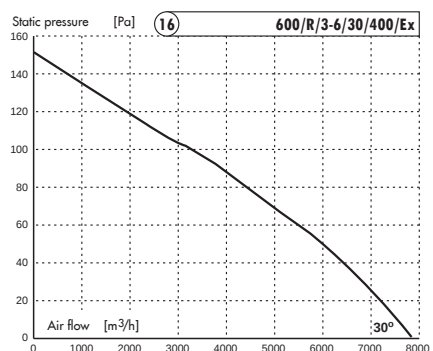
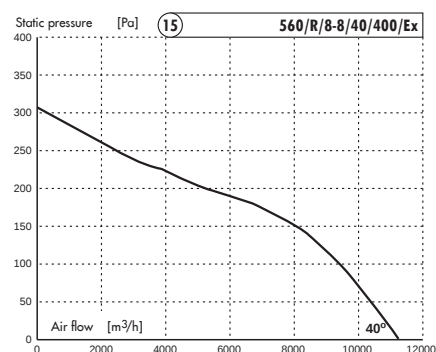
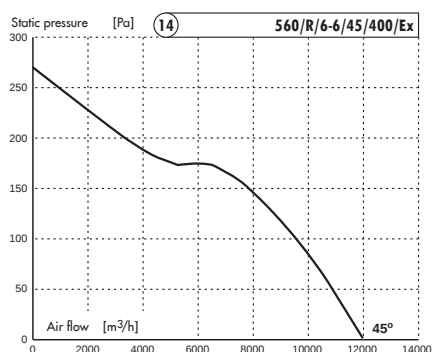
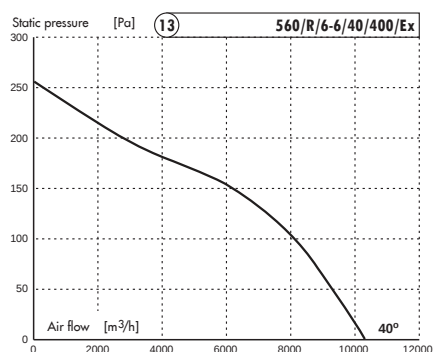
Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS - p. 22, 23

CHARACTERISTICS



CHARACTERISTICS



TECHNICAL DATA

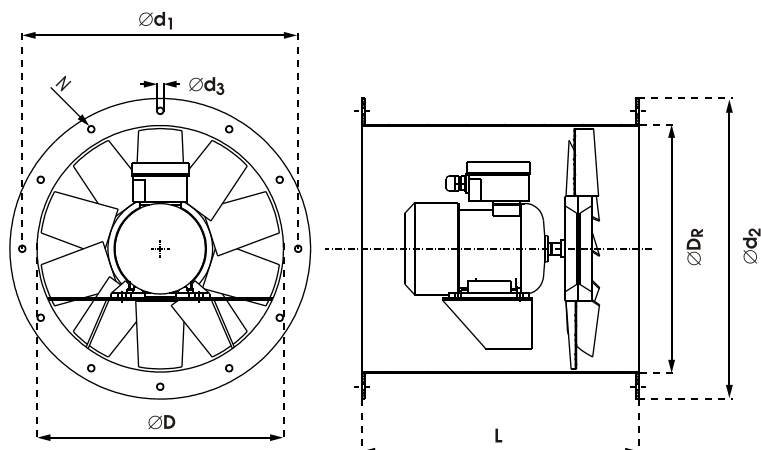


i Explosion-proof axial fans are designed to operate in explosive atmosphere endangered areas resulting from the existence of air and gas or mist mixtures (device group II, category 2). Fans are directly driven by electric motor shafts. Motors are of the reinforced construction "e".

Explosion-proof ducted fans are consistent with requirements of EU Directive 94/9/EC "ATEX" concerning devices designed for operation in explosion endangered areas (II 2G EEx e II T3 or T4). Fans are produced from the following materials: motor housing and brackets are made from galvanized steel coated with epoxide-polyester paint, rotors with blades are made from antistatic polyamide, while hubs are produced from silumin, asynchronous motors are adapted to continuous operation (S-1) in explosion endangered areas.

Fans should be used in ambient temperatures ranging from -20°C to $+40^{\circ}\text{C}$. Protection class IP56, isolation class F. Motors are not designed for rotational speed control. All models are available only in the three-phase version.

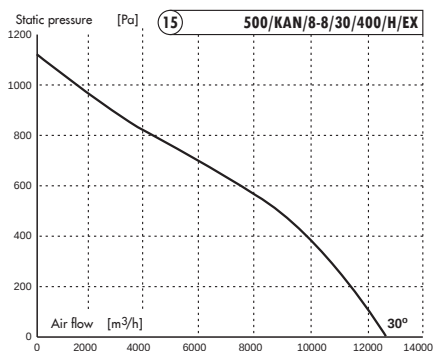
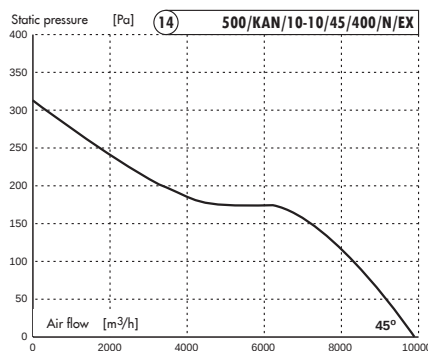
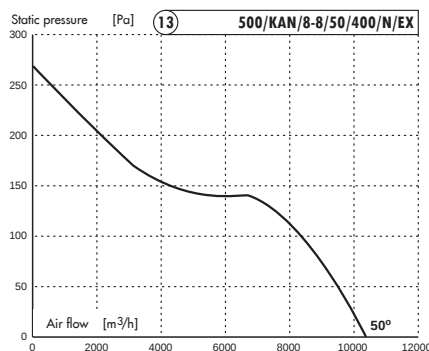
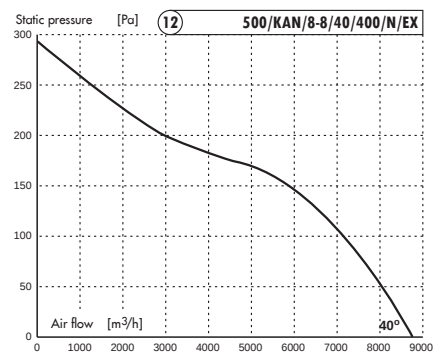
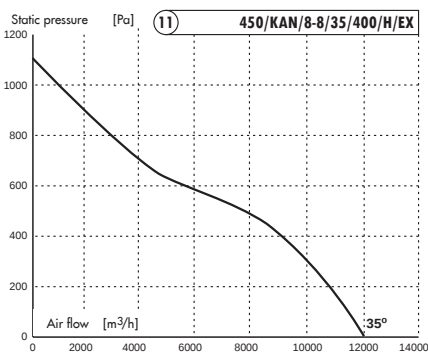
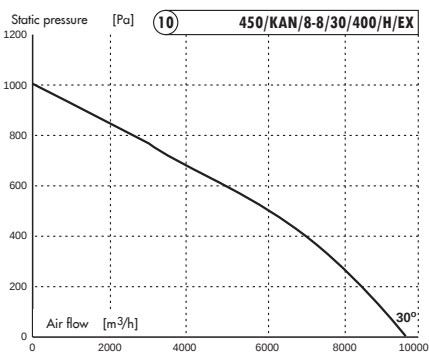
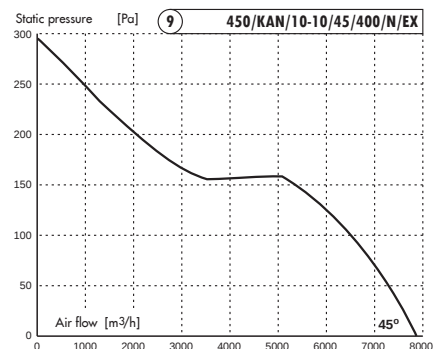
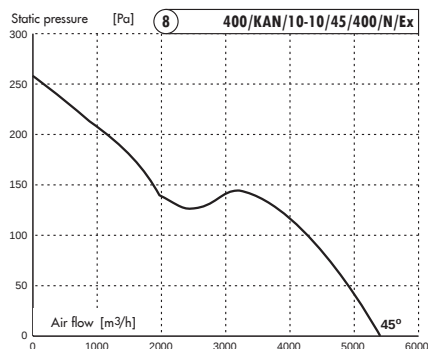
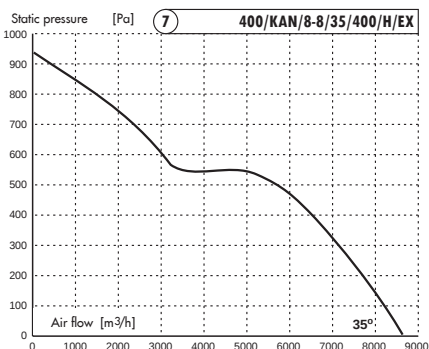
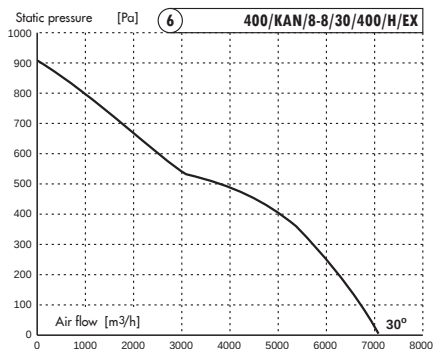
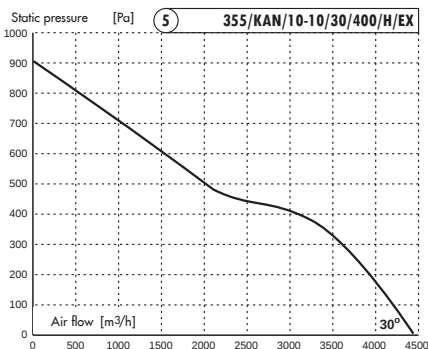
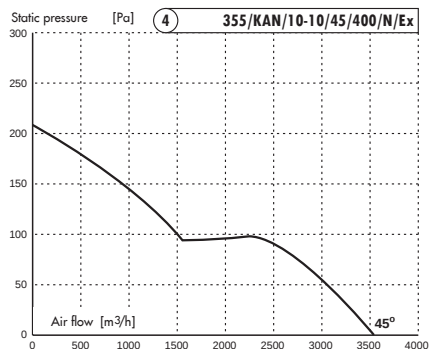
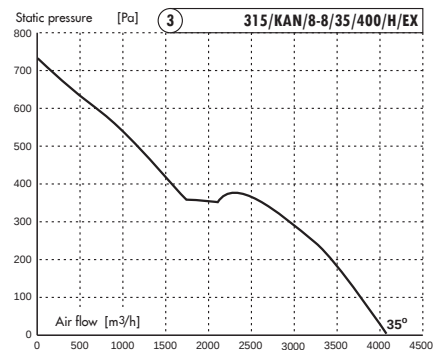
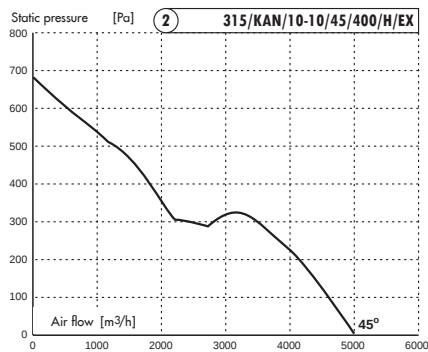
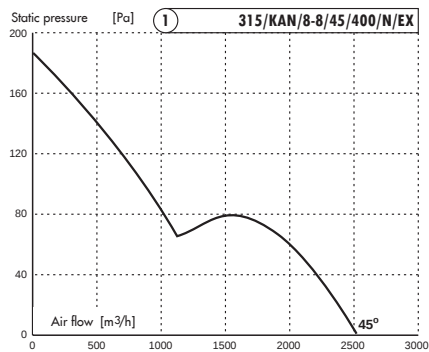
	D_R mm	D mm	L mm	N	d_3	d_1 mm	d_2 mm
0315	305	315	450	8	M10	366	400
0355	345	355	450	8	M10	405	450
0400	390	400	450	12	M10	448	500
0450	440	450	450	12	M10	497	550
0500	490	500	450	12	M10	551	604
0560	550	560	450	16	M12	629	664

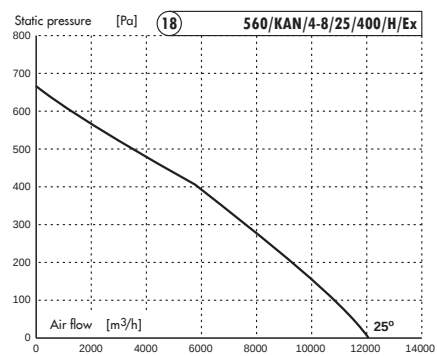
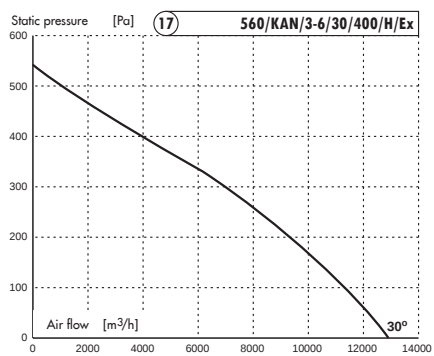
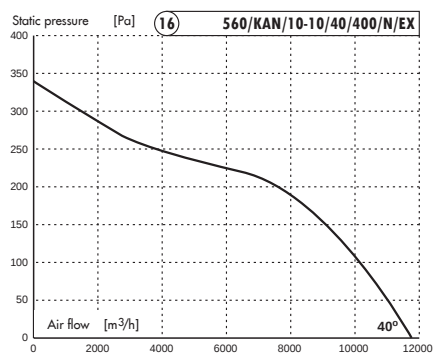


FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CUR- RENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	t_E (s)	TEMP. CLASS	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER Lw dB(A)
1 315/KAN/8-8/45/400/N/Ex	1380	2530	0,12	0,5	56	40	18,6	T4	15	57	68
2 315/KAN/10-10/45/400/H/Ex	2760	5170	0,75	1,8	56	40	10,5	T3	20	71	82
3 315/KAN/8-8/35/400/H/Ex	2850	4120	0,55	1,4	56	40	6,2	T4	20	68	79
4 355/KAN/10-10/45/400/N/Ex	1370	3520	0,18	0,6	56	40	14,2	T4	18	60	71
5 355/KAN/10-10/30/400/H/Ex	2760	4460	0,75	1,8	56	40	10,5	T3	23	65	76
6 400/KAN/8-8/30/400/H/Ex	2780	7010	1,1	2,4	56	40	7,2	T3	25	71	82
7 400/KAN/8-8/35/400/H/Ex	2850	8680	1,5	3,5	56	40	10,0	T3	29	75	86
8 400/KAN/10-10/45/400/N/Ex	1420	5440	0,37	1,3	56	40	11,0	T4	24	65	76
9 450/KAN/10-10/45/400/N/Ex	1420	7860	0,55	1,7	56	40	11,5	T4	26	69	80
10 450/KAN/8-8/30/400/H/Ex	2850	9670	1,5	3,5	56	40	10,0	T3	30	81	92
11 450/KAN/8-8/35/400/H/Ex	2860	12000	2,2	4,7	56	40	5,0	T3	34	79	90
12 500/KAN/8-8/40/400/N/Ex	1420	8740	0,55	1,7	56	40	11,5	T4	31	68	79
13 500/KAN/8-8/50/400/N/Ex	1370	10300	0,75	2,1	56	40	20,0	T3	30	71	82
14 500/KAN/10-10/45/400/N/Ex	1370	9910	0,75	2,1	56	40	20,0	T3	30	70	81
15 500/KAN/8-8/30/400/H/Ex	2860	12600	2,2	4,7	56	40	5,0	T3	36	83	94
16 560/KAN/10-10/40/400/N/Ex	1370	11700	0,75	2,1	56	40	20,0	T3	35	70	81
17 560/KAN/3-6/30/400/H/Ex	2780	12900	1,1	2,4	56	40	7,2	T3	36	72	83
18 560/KAN/4-8/25/400/H/Ex	2780	12200	1,1	2,4	56	40	7,2	T3	36	71	82

Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS







REVERSIBLE FANS are adapted to function as an intake or uptake fans. Switch allows to change air flow direction, simultaneously changing the direction of impeller rotation. Reversible fans are manufactured in both wall and duct version. The dimensions are equal to corresponding wall and duct fans presented on the previous pages (mounted inside the same casing).

FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)		WEIGHT (kg)		SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER Lw dB(A)
						R	KAN	R	KAN		
1 400/-/12-12/45/400/REW	1400	4290	0,37	1,2	66	60	60	10	23	63	74
2 450/-/10-10/45/400/REW	1400	6510	0,37	1,2	66	60	60	10	25	68	79
3 500/-/6-6/45/400/REW	1400	7740	0,37	1,2	66	60	60	10	27	68	79
4 500/-/8-8/40/400/REW	1400	7240	0,37	1,2	66	60	60	10	27	67	78
5 500/-/12-12/40/400/REW	1400	7430	0,55	1,3	66	60	60	12	29	67	78
6 560/-/6-6/40/400/REW	1400	8560	0,37	1,2	66	60	60	12	28	66	77
7 560/-/8-8/40/400/REW	1400	9380	0,55	1,3	66	60	60	13	29	68	79
8 560/-/12-12/40/400/REW	1400	10200	0,75	2,2	66	60	60	16	33	70	81
9 630/-/8-8/35/400/REW	1400	10200	0,55	1,3	66	60	60	14	34	66	77
10 630/-/8-8/40/400/REW	1400	11700	0,75	2,2	66	60	60	16	33	69	80
11 630/-/12-12/40/400/REW	1400	13500	1,1	3,0	66	60	60	18	38	72	83



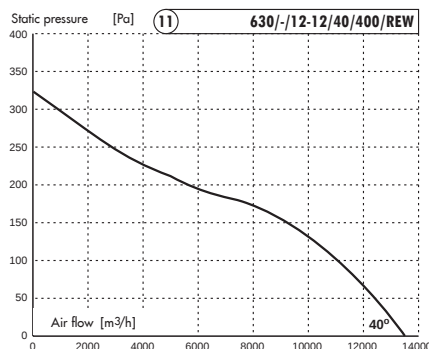
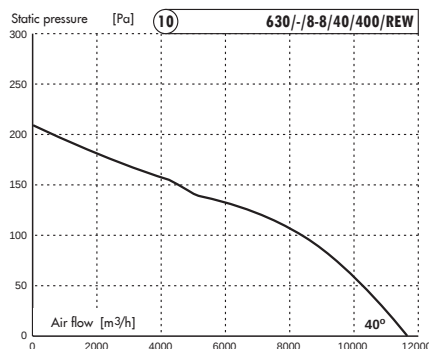
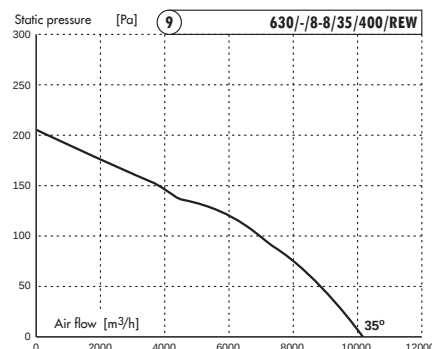
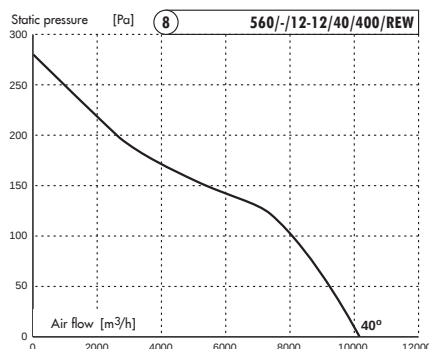
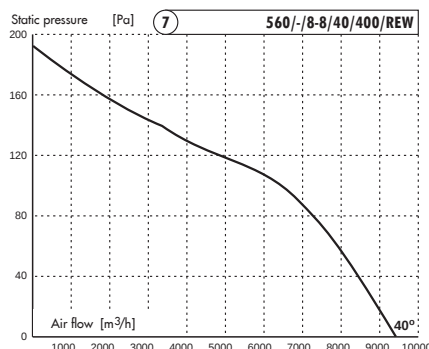
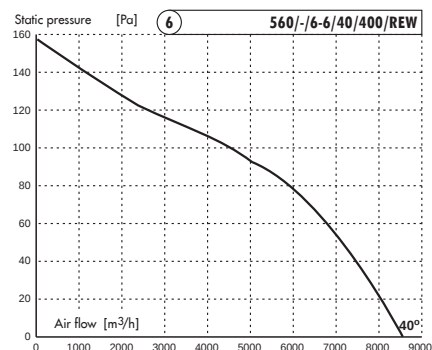
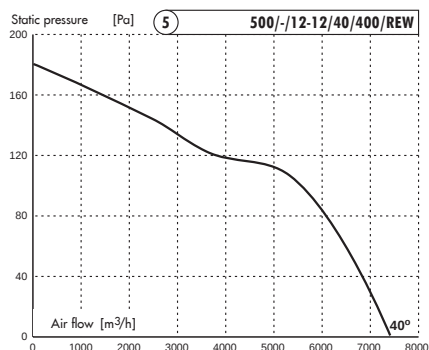
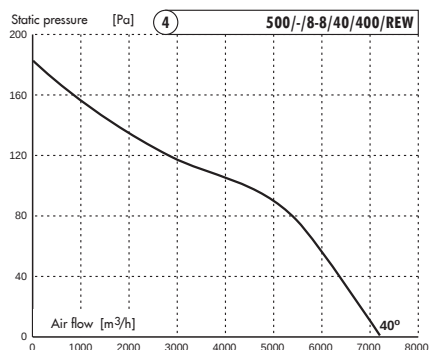
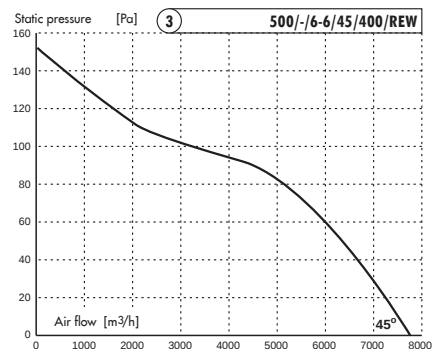
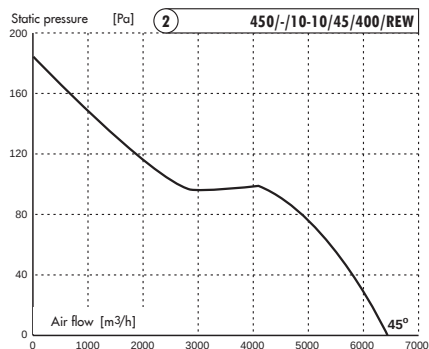
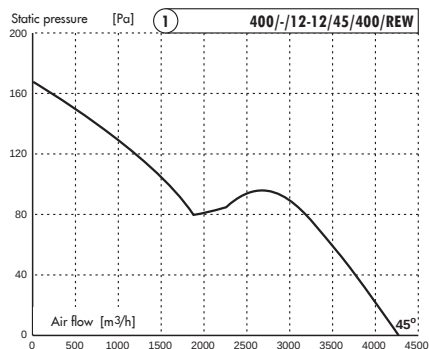
Fans in PT version (increased working temperature) are available on special orders



Information about measuring conditions of technical parameters are presented on third page of this catalogue

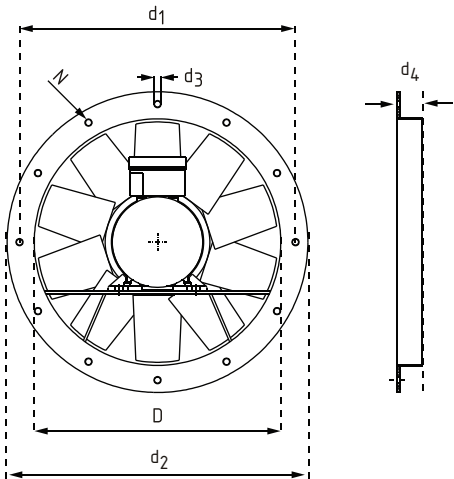
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i COUNTERFLANGES for ducted fans are produced from stainless steel and powder-painted in the colour black. They make it possible to connect a straight duct of a round cross-section. Explosion proof duct fans can also be fitted with counterflanges.



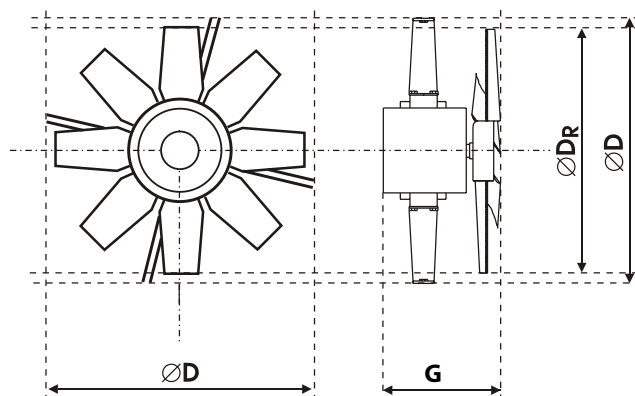
COUNTER FLANGES		D (mm)	d1 (mm)	d2 (mm)	N	d3 (mm)	d4 (mm)
1	PK 0315	315	366	404	8	M10	35
2	PK 0355	355	405	454	8	M10	35
3	PK 0400	400	448	504	12	M10	35
4	PK 0450	450	497	554	12	M10	40
5	PK 0500	500	551	604	12	M10	40
6	PK 0560	560	629	664	16	M12	40
7	PK 0630	630	698	734	16	M12	40

TECHNICAL DATA



TUBE FANS are designed to fit into existing circular or square shaped air ducts (e.g. gravitational installation). In case of placing the tube fan in square shaped duct, an additional inlet cone is recommended to reduce compression losses and noise level.

	D _R mm	D mm	G mm
0355	345	355	300
0400	390	400	310
0450	440	450	310
0500	490	500	300
0560	550	560	320
0600	590	600	320
0630/L	620	630	370
0630	620	630	340



FAN TYPE	SPEED (RPM)	AIR FLOW (m³/h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER Lw dB(A)	SUITABLE SPEED CONTROLLER
1 355/K/8-8/45/230	1350	3540	0,15	1,3	66	60	7	60	71	SPA-3
2 400/K/8-8/45/230	1350	5120	0,25	1,8	66	60	7	64	75	SPA-3
3 450/K/8-8/45/230	1350	7320	0,37	2,8	66	60	10	67	78	SPA-3
4 500/K/8-8/40/230	1350	8310	0,37	2,8	66	60	10	67	78	SPA-3
5 560/K/8-8/40/230	1350	10800	0,55	4,0	66	60	12	68	79	SPA-5
6 600/K/8-8/40/230	1350	12300	0,55	4,0	66	60	12	69	80	SPA-5
7 630/K/8-8/50/230/L	900	12000	0,55	4,3	66	60	12	66	77	SPA-5
8 630/K/8-8/40/230	1350	13500	0,75	5,1	66	60	13	69	80	SPA-10



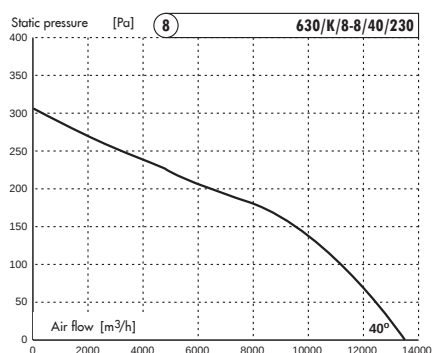
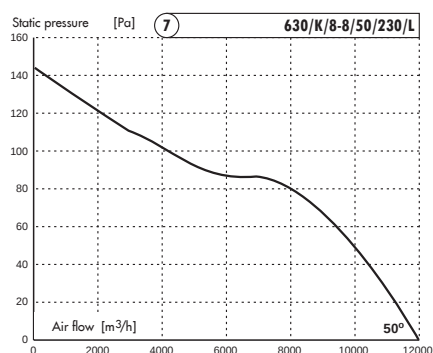
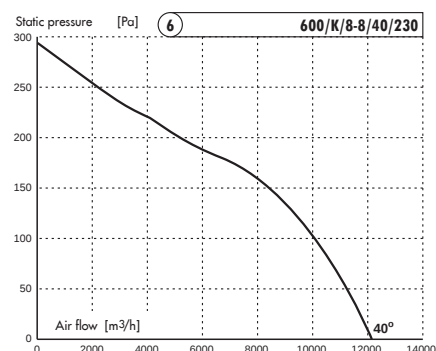
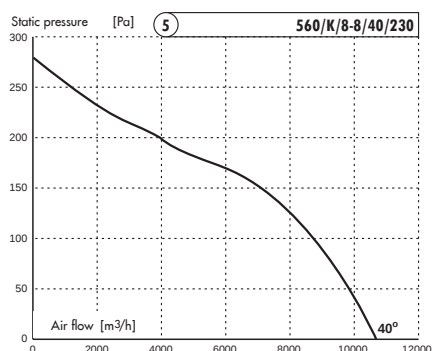
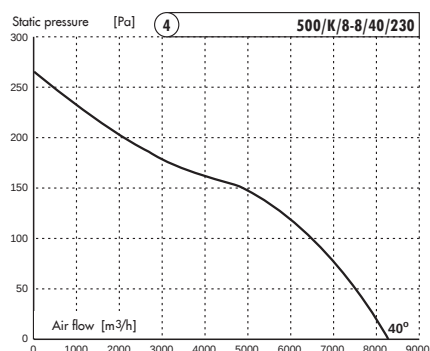
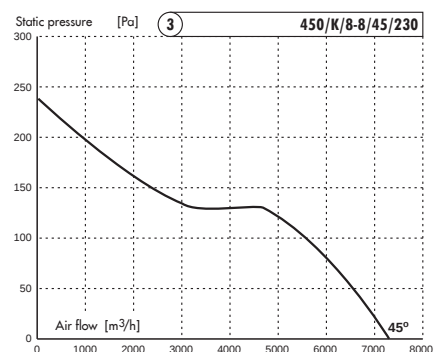
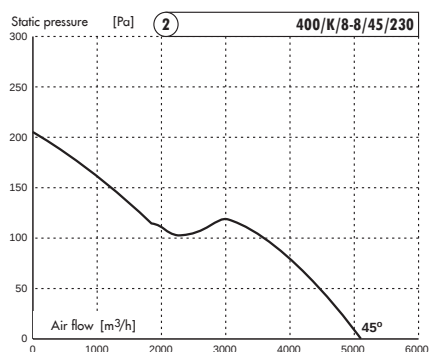
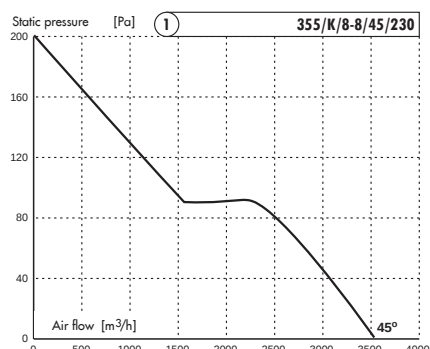
Fans in PT version (increased working temperature) are available on special orders
Fans can be produced in a three-phase version (400V)



Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS

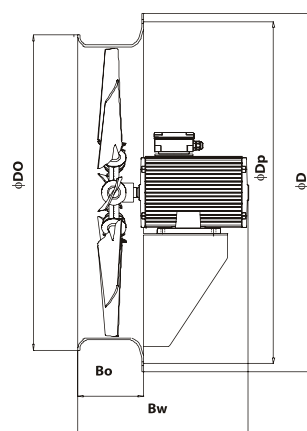
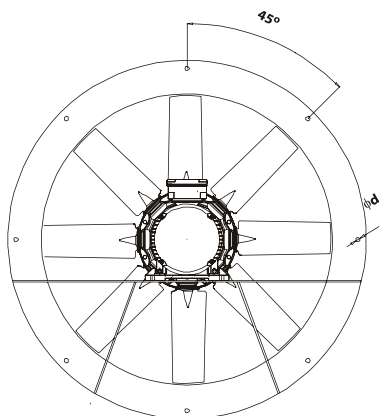
Information about measuring conditions of technical parameters are presented on third page of this catalogue



TECHNICAL DATA



Designed for lumber drying kilns. Their special construction allows continuous work in high temperatures (up to 100°C) as well as in highly humid environment (up to 100% RH). Fans have been optimised for high air efficiency with the lowest possible RPM. Equipped with reversible impeller, fans can rotate in both directions.



	B ₀ mm	B _w mm	D mm	D _p mm	D ₀ mm	d mm
0500	140	350	640	615	540	10
0600	150	355	775	728	650	10
0700	150	400	875	820	750	12
0800	175	470	985	940	865	12
0900	180	425	1105	1030	950	12

FAN TYPE	SPEED (RPM)	AIR FLOW (m³/h)	MO- TOR POW- ER	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)		SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
							PAG	AL			
1 500/SU/8-8/50/400	1400	8870	0,55	1,35	56	100	14	15	71	82	FT-2,1 / FJ-3,5
2 600/SU/8-8/50/400	1400	14100	0,9	2,3	56	100	21	22	75	86	FT-4,1 / FJ-6,0
3 700/SU/12-12/50/400	1400	22100	2,2	5,2	56	100	31	33	79	90	FT-5,4 / FJ-9,6
4 800/SU/9-9/45/400	1450	30500	3,3	7,1	55	100	46	48	78	89	FT-8,8
5 900/SU/9-9/40/400	1450	33800	3,3	7,1	55	100	49	51	76	87	FT-8,8

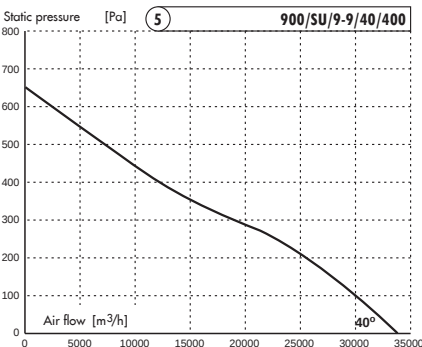
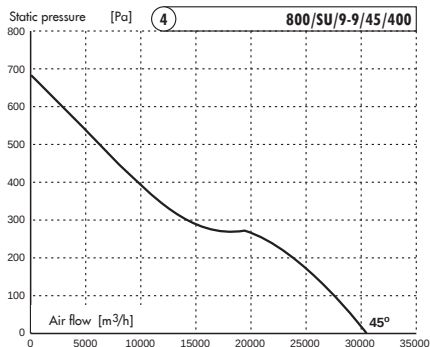
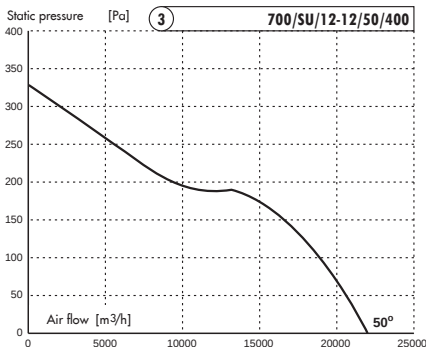
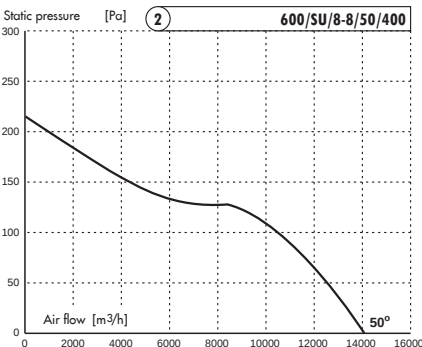
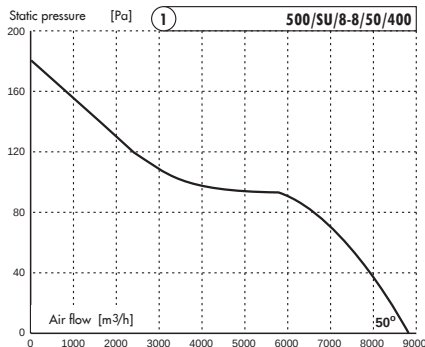
Diagrams for single type fans, but with AL vanes, are identical.

CHARACTERISTICS - p. 28

CHARACTERISTICS



Information about measuring conditions of technical parameters are presented on third page of this catalogue



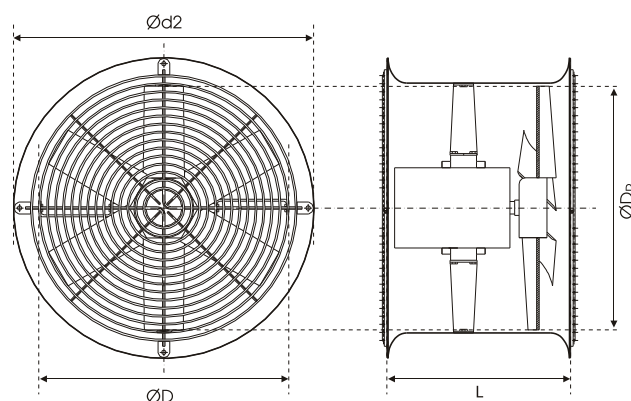
RECIRCULATION FANS

Ø500



i RECIRCULATION FANS are designed for large rooms to force circulation of air and to reduce heat losses caused by stratification of air.

Fans are assembled in lightweight casings made of unsaturated glass-polyester resin. The casings are also equipped with protection grilles and catches which allow easy suspension.



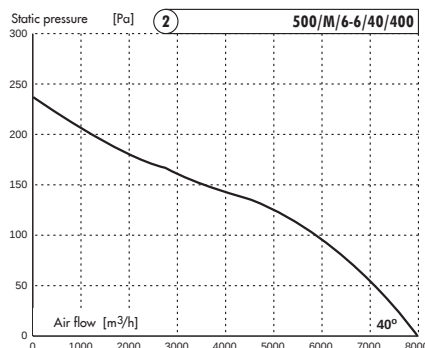
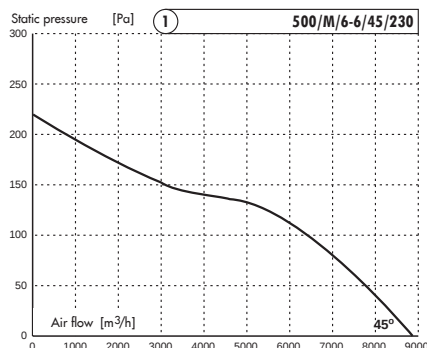
	d ₂ mm	D _R mm	D mm	L mm
Ø500	661	497	505	495

	FAN TYPE	SPEED (RPM)	AIR FLOW (m ³ /h)	MOTOR POWER (kW)	CURRENT (A)	IP	MAXIMUM WORKING TEMPERATURE (°C)	WEIGHT (kg)	SOUND PRESSURE SPL dB(A)	ACOUSTIC POWER L _w dB(A)	SUITABLE SPEED CONTROLLER
1	500/M/6-6/45/230	1350	8880	0,37	2,8	66	60	11	68	79	SPA-3
2	500/M/6-6/40/400	1400	7940	0,37	1,2	66	60	11	66	77	FT-1,2 FJ-3,5

i Fans in PT version (increased working temperature) are available on special orders

Information about measuring conditions of technical parameters are presented on third page of this catalogue

CHARACTERISTICS



SPEED CONTROLLERS

SPA-3

SPA-5

SPA-10



i SPA-3, SPA-5 and SPA-10 digital speed controllers are designed for regulation of asynchronous motors.

A metal casing protects controllers from mechanical damage. It also functions as a natural heat radiator.

Devices are designed according to IP 66 class which ensures perfect protection from external factors.

As long as the controllers are turned off, a special relay completely cuts off its circuits from the supply network. This relay also eliminates scintillation effects which increases the device's life.

Regulation is controlled by two arrow buttons on the main control panel. Nine LEDs show the current power setting. The panel has also three control buttons.

Use of a microprocessor system allows for the smooth regulation of the receiver's power without stepping.

Additionally devices can operate in a special mode that allows the receiver to activate with full power to ensure that the impeller will start rotating in difficult conditions (such as low temperature).

	SPA-3	SPA-5	SPA-10
Supply voltage [V/Hz]	230/50		
Maximum constant load current [A]	3	5	10
Type of supply network	TN-S (with PE protection conductor)		
Class of protection from electric shock	I, metal casing		
Class of protection	IP 66		
Range of regulation	0% - 100%, resolution: 6, 10, 14 or 18 steps		
Working temperature [°C]	0 - 50		
Dimensions [mm] (height x width x length)	120x80x58		160x100x61
Environment relative humidity [%]	up to 95 (without steam condensation)		



i Scalable single-phase (FJ) or three-phase (FT) inverters are electric devices enabling the control of rotational speed of electric motors supplied with direct current (at single-phase electric supply of motors up to 2,2KW and three-phase electric supply up to 5,5KW).

Properties of scalable inverters FJ and FT:

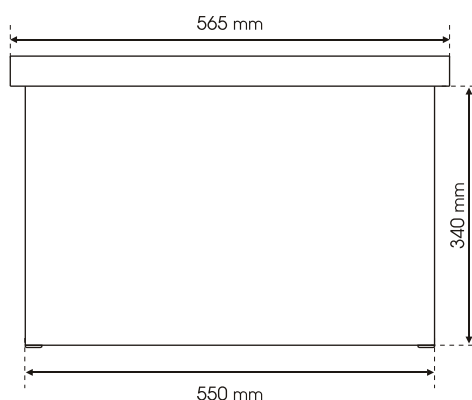
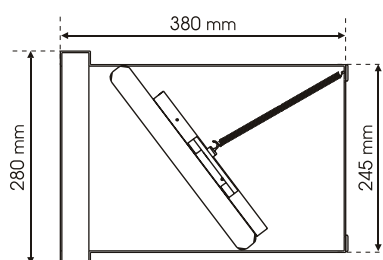
- higher performance
- better quality
- smaller dimensions
- power ranging from 0,1 kW to 5,5 kW
- operation in Heavy Duty (HD) / Normal Duty (ND) modes
- braking resistor can be connected or slip braking
- 5 digital inputs (NPN/PNP), 1 analogue input 0-10V/0(4)-20mA, 1 analogue output 0-10V
- U/f control, selection of predefined U/f characteristic or custom programmable
- low interference level, low carrier frequency
- calculated 10-year period of operation
- can be mounted "inverter by inverter"
- silent operation
- communication through RS232/USB
- communication through MODBUS protocol
- quick access to the most frequently used parameters and review of changed parameters
- CE,UL,cUL iTUV

Installation location	Inside
Ambient temperature	-10 °C do +50 °C A cooling fan should be installed, when the inverter is mounted in an electric cabinet, so the temperature inside the housing would not exceed a permissible value. Prevent ice formation on the inverter.
Relative humidity	95% or lower (without condensation)
Storage temperature	-20 °C to +60 °C
IP	20
Environment	The inverter should be installed in a place free from: ▪ oil mist and dust, ▪ metal shavings, oil, water and other similar materials, ▪ radioactive materials, ▪ inflammable materials (e.g. wood), ▪ harmful gases and liquids, ▪ excessive vibrations, ▪ chlorides, ▪ direct sun rays.
Height above sea level	1000m or less
Vibrations	10 - 20 Hz at 9.8 m/s ² , 20 - 55 Hz at 5.9 m/s ²
Orientation	The inverter should be installed upright to ensure maximum cooling.

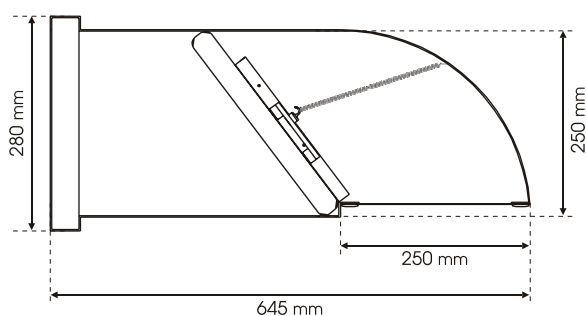
AIR INLETS

MINI

MAXI



i MINI air inlet dimensions



i MAXI air inlet dimensions

i When the fan is activated, the return flap used in the air intake opens as a result of generated pressure difference and remains in this position, until the fan is deactivated. The flap opening force can be adjusted. Air intakes are additionally equipped with protection metal grille preventing larger impurities from entering ventilated areas.

The air intake housing is made of the ABS material, while the return flap is made of polystyrene.

The MAXI air intakes are properly shaped so that the air is sucked from the bottom preventing rain drops or snow from entering the installation. When selecting locations for air intakes, make sure they are placed:

- at the northern or eastern side of a building,
- not in the direct vicinity of air polluting agents, such as dustbins, workshops, vent air outlets.

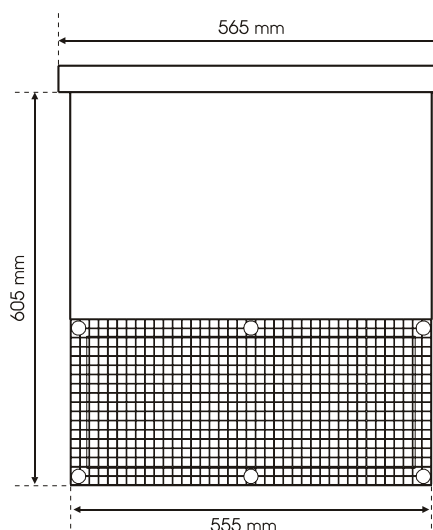
The MINI air intake is designed for indoor applications to ensure fresh air supply to a sectioned room by means of a mechanical ventilation. Smaller dimensions make it possible to save space, when MINI air intakes are mounted in corridors or on partition walls.

Air inlet velocity to the air intake opening should amount to approximately 3 [m/s]. Higher velocities can produce additional noise and higher pressure losses.

Using given recommended velocities and dimensions of air intake entry opening, that is 0,2 x 0,5 [m], a proper and recommended fan output cooperating with the air intake can be selected. The outputs should range from 1100 to 1800 [m³/h].

The required pressure difference, at which the flap is fully open, can be adjusted and ranges from 25 to 40 [Pa] (the difference between air atmospheric pressure and pressure below atmospheric in a room).

The air intakes are equipped with a sliding front panel for closing the intake (e.g. in winter season).



WALL SHUTTERS (PVC)

- i** Wall shutter are made of PVC. Aperture diameters in shutters range from 210 to 710 mm. They are adapted for mounting with exhaust fans (flow A), on walls and venting duct outlets. Shutters are self-deflecting under the influence of flowing air. They protect fan rotors against mechanical damages and weather influences. Shutters are mounted by means of screws (supplied with shutters). Shutters color from RAL color palette - close to RAL 7035.



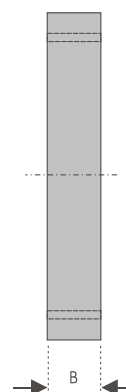
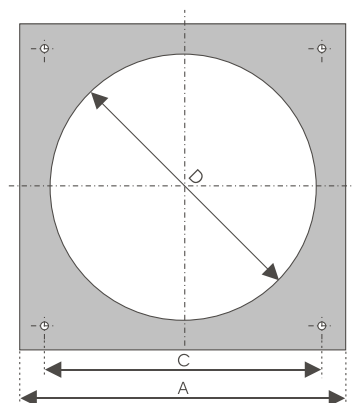
front close-up



back close-up



TYP	A	B	C	D	No of lamellas
200	245	20	190	210	6
250	299	25	235	260	5
300	347	26	274	310	6
350	397	26	310	360	7
400	460	26	364	423	8
450	501	31	395	460	6
500	549	31	445	510	7



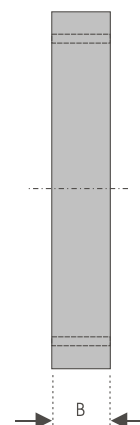
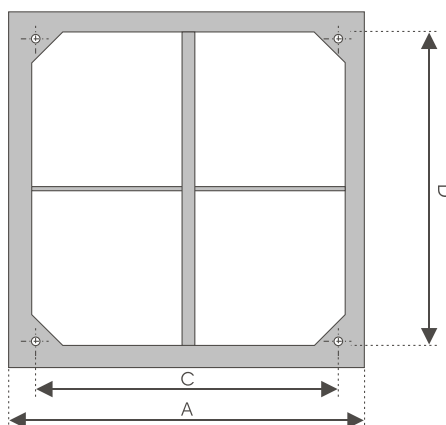
front close-up



back close-up



TYP	A	B	C	D	No of lamellas
560	610	30	530	567	14
650	701	31	626	660	16
710	749	31	663	710	18





i Portable electric heaters with powers from 3,3 to 22 kW

- Robust metal housing made of stainless steel.
- Isolated, strong handles.
- Incorporated room and protecting thermostat.
- The device is equipped with power switch for changing operation modes in 1/2 or 1 position.
- The device housing is powder-painted.
- The device is available without power supply cables (except for RPL 3,3FE and RPL 5FT)
- IPX 40

Application:

Building drying, heating closed rooms, warehouses, churches, production halls, etc.

MODEL	RPL 3,3FE	RPL 5FT	RPL 9FT	RPL 15FT	RPL 22FT
Heat output kW	1,7/3,3	2,5/5	3/6/9	7,5/15	7/15/22
Heat output kCal/h	1420/2840	2150/4300	2580/5160/7740	6450/12900	6000/12900/18920
Air efficiency	400 m ³ /h	400 m ³ /h	800 m ³ /h	1300 m ³ /h	2400 m ³ /h
Voltage	230V/50Hz	400V/50Hz	400V/50Hz	400V/50Hz	400V/50Hz
Max. power absorbtion	14,3 A	7,2 A	13,0 A	21,6 A	32 A
Power consumption	3,3 kW	5,0 kW	9,0 kW	15,0 kW	22,0 kW
Noise level	50 dB(A)	50 dB(A)	52 dB(A)	54 dB(A)	65 dB(A)
Width	250 mm	250 mm	330 mm	350 mm	490 mm
Length	250 mm	250 mm	380 mm	440 mm	360 mm
Height	420 mm	420 mm	590 mm	600 mm	700 mm
Weight	7,5 kg	8 kg	13,5 kg	15,5 kg	24 kg

