

**PRODUCT CONFIGURATOR
AT WWW.MERCOR.COM.PL**



- ▶ Certificate of constancy of performance 1488-CPD-0209/W for F400 and 1488-CPR-0526/W for F600.
- ▶ Functional properties according to EN 12101-3:2002+AC:2005.
- ▶ Patent no. 220478 issued by Patent Office of the Republic of Poland.
- ▶ 6 nominal sizes.
- ▶ Two-speed versions for mixed ventilation systems.
- ▶ Also available without fire resistance - BO.

1.1.

use

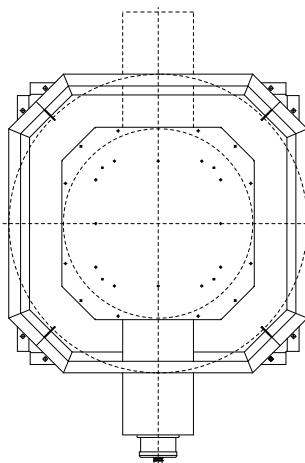
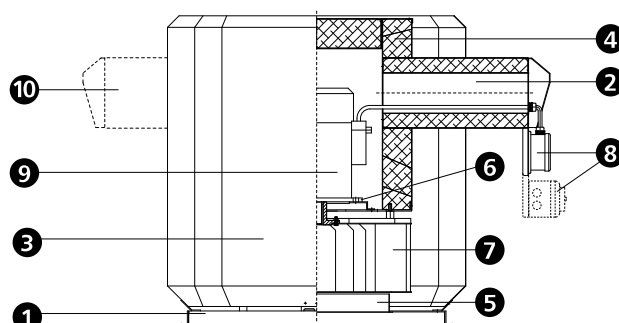
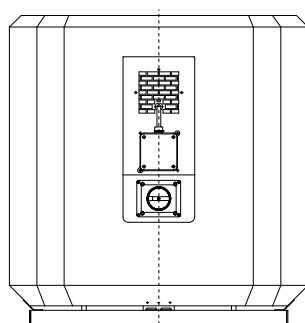
mcr Pasat roof smoke exhaust fans with axial impeller for removing smoke and hot air from rooms on fire and for comfort ventilation. The fans can feature one or two speed motors and combine comfort and smoke exhaust functions, e.g. both for ventilation and smoke exhaust in underground car parks, shopping malls and production halls.

Smoke exhaust fans facilitate evacuation of people and equipment from areas on fire, enable faster and more effective fire fighting, protect the building structure and its furnishing from high temperature, inhibit spreading of fire, fire gases and smoke to adjacent fire zones.

The devices can be used outdoors and in vertical position.

1.2.

design



1. fan base
2. cooling duct
3. outer housing
4. motor housing
5. connection pipe
6. motor base
7. radial impeller
8. terminal box/service switch [option]
9. electric motor
10. additional cooling duct (for diameters 630, 710)

Depending on the fan size the fan's housing is made of aluminium sheet or hot-galvanised steel sheet. The fan's design enables draining precipitation water, melting snow or condensed water vapour from inlet air.

The fan may be equipped with a three phase class IE2 or IE3 motor: one-speed [230/400 V (Y) or 400/690 V (D/Y)], or two-speed [400/400 V (Y/YY)] with different rotational speeds (3000, 1500, 1000, 750 rpm) without serial assembled thermal protection. The engine is designed for operation with an inverter.

The axially designed impeller is set directly on the motor shaft neck.

1.3. dimensions

Roof smoke exhaust fans mcr Pasat are available with six nominal diameters of impeller: 315 mm, 355 mm, 400 mm, 500 mm, 630 mm, 710 mm.

Detailed dimensions of fans are given in the descriptions of individual types later in the chapter.

1.4. technical parameters

1.4.1. motor power

Range of motor power depending on the size of fan and rotational speeds of the impeller

motor speed n = 750 [rpm]		motor speed n = 1000 [rpm]		motor speed n = 1500 [rpm]		motor speed n = 3000 [rpm]	
fan	power range P [kW]	fan	power range P [kW]	fan	power range P [kW]	fan	power range P [kW]
mcr Pasat 31	0.09-0.25	mcr Pasat 31	0.12-0.37	mcr Pasat 31	0.37-1.1	mcr Pasat 31	1.5-5.5
mcr Pasat 35	0.9-0.37	mcr Pasat 35	0.8-0.55	mcr Pasat 35	0.55-1.5	mcr Pasat 35	3-11
mcr Pasat 40	0.12-0.55	mcr Pasat 40	0.25-0.75	mcr Pasat 40	1.1-3	mcr Pasat 40	4-15
mcr Pasat 50	0.37-1.1	mcr Pasat 50	0.75-2.2	mcr Pasat 50	3-7.5		
mcr Pasat 63	0.75-5.5	mcr Pasat 63	2.2-7.5	mcr Pasat 63	7.5-30		
mcr Pasat 71	1.5-7.5	mcr Pasat 71	5.5-7.5	mcr Pasat 71	15-37		

1.4.2. fire resistance

In accordance with EN 12101-3 mcr Pasat fan is certified for the following fire resistance:

- class **F400** – fire resistance 400°C/120 min.

- class **F600** – fire resistance 600°C/60 min.

Also available in version BO, i.e. without fire resistance.

1.4.3. technical and flow parameters

The working parameters of mcr Pasat fan cover the range from 500 m³/h to 52000 m³/h at pressure up to 1950 Pa.

Symbols in tables and specifications:

Δp – available pressure [Pa]

Q – efficiency [m³/h]

nr – specification number

P – rated power [kW]

n – motor speed [rpm]

Un – rated voltage

I_n – rated current

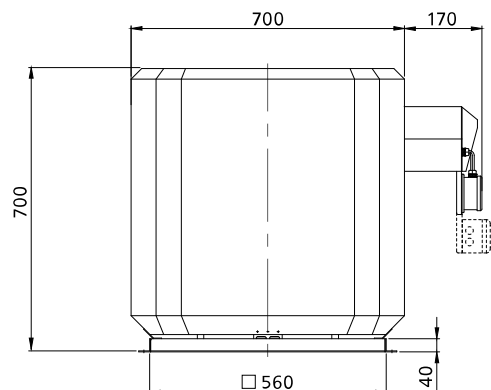
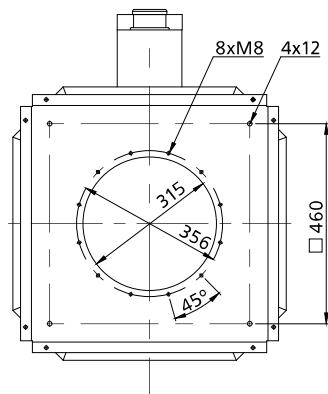
$m1$ – approximate F400 fan weight without accessories [kg]

$m2$ – approximate F600 fan weight without accessories [kg]

The specifications refer to 20°C and air density of 1.2 kg/m³.

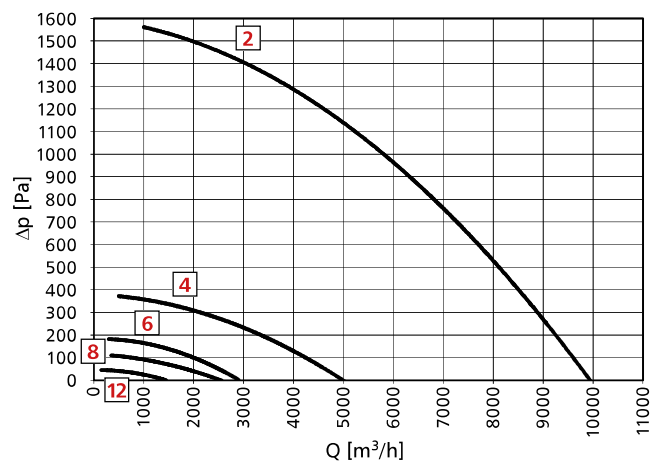
The mcr Pasat fan selection program is available at www.mercor.com.pl, in the Architect and Designer Zone.

mcr Pasat 31



mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
31/2-4	2	4	3000	400	7.8	71	79
31/4-0.55	4	0.55	1500	400	1.46	54	62
31/6-0.25	6	0.25	1000	400	0.79	53	61
31/8-0.12	8	0.12	750	400	0.51	54	62

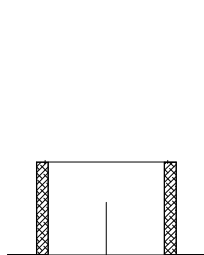
mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
31/2/4-4.5/1.3	2/4	4.5/1.3	3000/1500	400	9.9/1.3	81	89
31/4/6-0.7/0.2	4/6	0.7/0.2	1500/1000	400	2.1/1.05	56	63
31/4/8-0.75/0.12	4/8	0.75/0.12	1500/750	400	2.3/0.9	55	63
31/6/12-0.75/0.15	6/12	0.75/0.15	1000/500	400	2.1/0.8	59	67



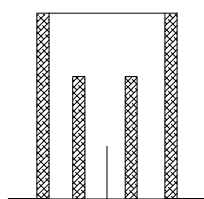
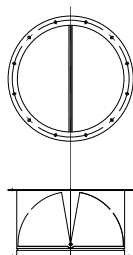
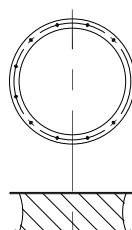
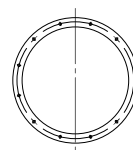
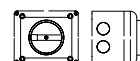
fan									sound power level Lw(A)*
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	[dB A]
mcr Pasat 31/2	61	71	85	90	92	91	86	78	97
mcr Pasat 31/4	45	55	69	74	76	75	70	62	81
mcr Pasat 31/6	37	47	62	67	69	67	63	54	73
mcr Pasat 31/8	32	42	57	62	64	62	58	49	68
mcr Pasat 31/2/4	61	71	85	90	92	91	86	78	97
mcr Pasat 31/4/6	45	55	69	74	76	75	70	62	81
mcr Pasat 31/4/8	45	55	69	74	76	75	70	62	81
mcr Pasat 31/6/12	37	47	62	67	69	67	63	54	73

*Sound power level Lw(A) was established for fan's highest efficiency point.

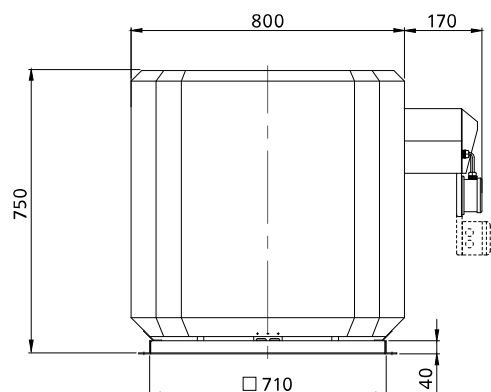
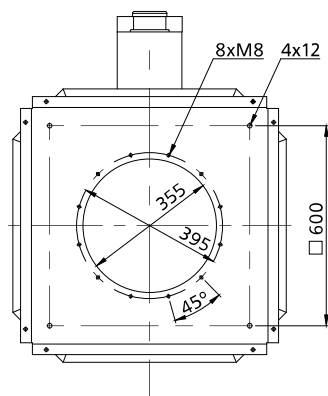
Accessories



Roof base PD

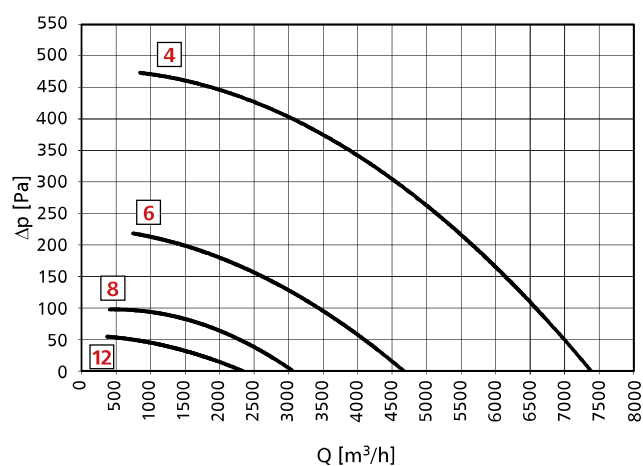
Soundproof roof
base PD-TAutomatic
back draft damper
KS-VFlexible
connection KDCounter flange
PKService switch
WS

mcr Pasat 35



mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
35/4-1.5	4	1.5	1500	400	3.4	75	83
35/6-0.25	6	0.25	1000	400	0.79	68	76
35/8-0.18	8	0.18	750	400	0.75	69	77

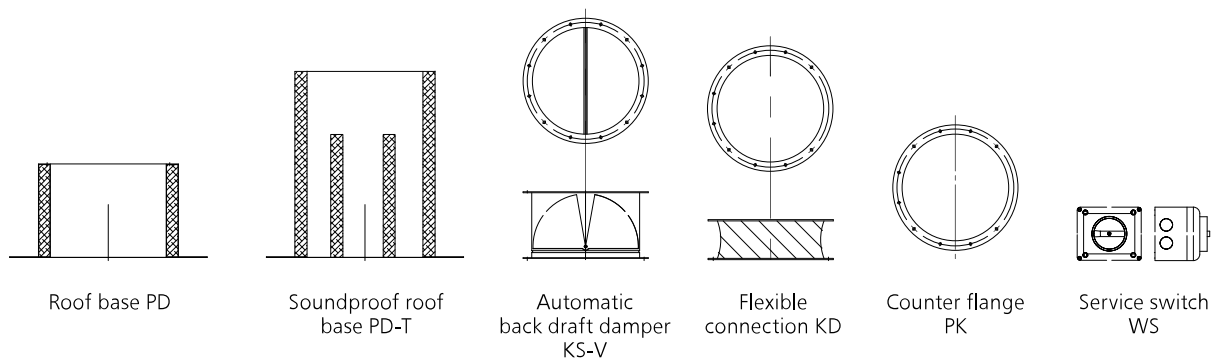
mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
35/4/6-1.4/0.5	4/6	1.4/0.5	1500/1000	400	3.5/1.4	76	84
35/4/8-1.5/0.25	4/8	1.5/0.25	1500/750	400	4.2/1.6	74	82
35/6/12-0.75/0.15	6/12	0.75/0.15	1000/500	400	2.1/0.8	74	82



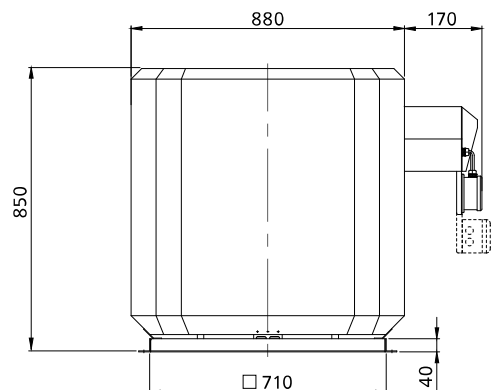
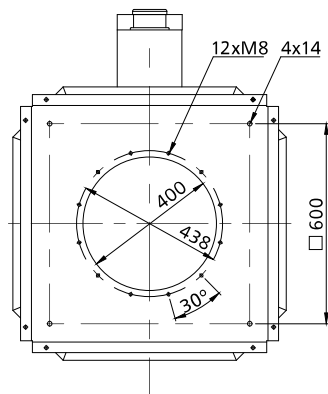
fan									sound power level Lw(A)*
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	[dB A]
mcr Pasat 35/4	50	59	74	79	81	80	75	66	86
mcr Pasat 35/6	41	51	65	70	72	71	66	58	77
mcr Pasat 35/8	32	42	56	61	63	62	57	49	68
mcr Pasat 35/4/6	50	59	74	79	81	80	75	66	86
mcr Pasat 35/4/8	50	59	74	79	81	80	75	66	86
mcr Pasat 35/6/12	41	51	65	70	72	71	66	58	77

*Sound power level Lw(A) was established for fan's highest efficiency point.

Accessories

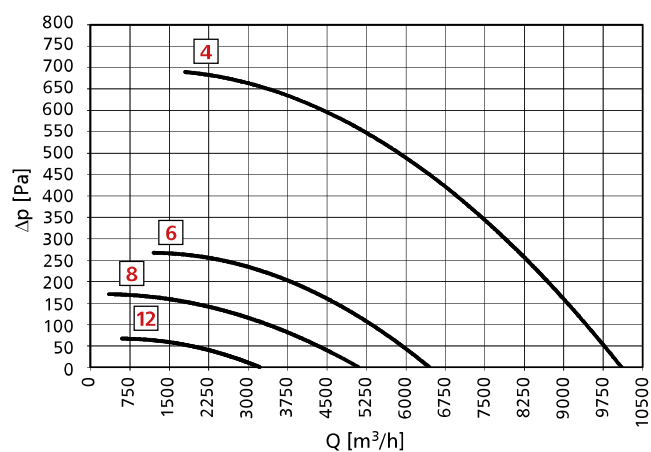


mcr Pasat 40



mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
40/4-2.2	4	2.2	1500	400	4.7	92	102
40/6-0.55	6	0.55	1000	400	1.6	83	93
40/8-0.37	8	0.37	750	400	1.14	85	95

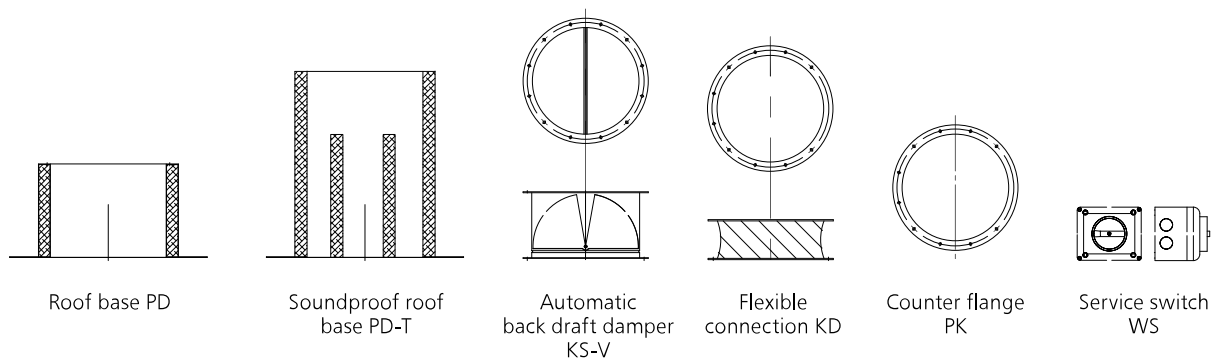
mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
40/4/6-2.4/0.75	4/6	2.4/0.75	1500/1000	400	5.9/2.1	96	106
40/4/8-2.2/0.37	4/8	2.2/0.37	1500/750	400	5.5/2	92	102
40/6/12-0.75/0.15	6/12	0.75/0.15	1000/500	400	2.1/0.8	86	96



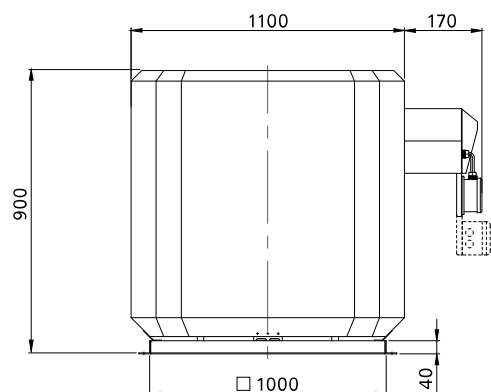
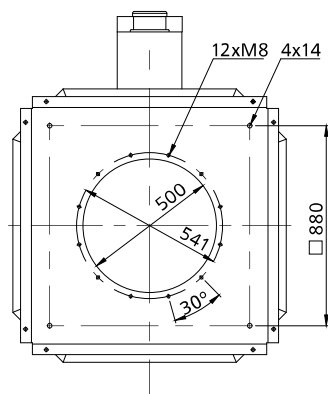
fan									sound power level Lw(A)*
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	[dB A]
mcr Pasat 40/4	55	65	79	84	86	85	80	71	91
mcr Pasat 40/6	44	54	69	74	76	74	70	61	80
mcr Pasat 40/8	39	49	63	68	70	69	64	56	75
mcr Pasat 40/4/6	55	65	79	84	86	85	80	71	91
mcr Pasat 40/4/8	55	65	79	84	86	85	80	71	91
mcr Pasat 40/6/12	44	54	69	74	76	74	70	61	80

*Sound power level Lw(A) was established for fan's highest efficiency point.

Accessories

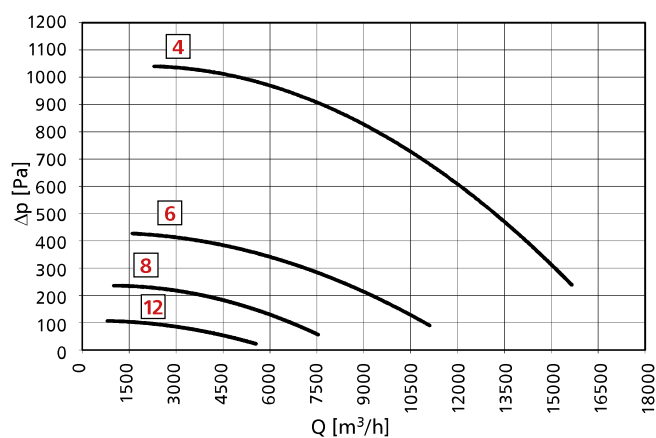


mcr Pasat 50



mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
50/4-4	4	4	1500	400	8.2	135	147
50/6-1.1	6	1.1	1000	400	2.85	122	134
50/8-0.75	8	0.75	750	400	2.15	127	139

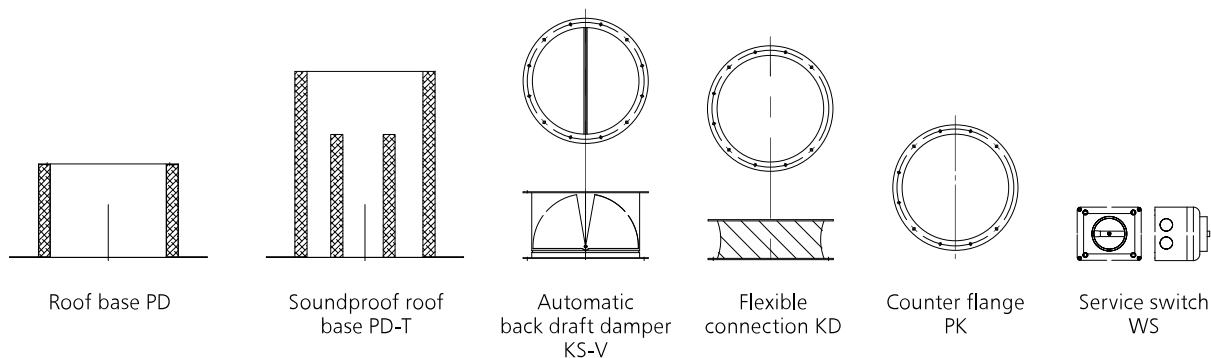
mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
50/4/6-4/1.2	4/6	4/1.2	1500/1000	400	8.1/3	150	162
50/4/8-4/0.75	4/8	4/0.75	1500/750	400	8.7/3.5	143	155
50/6/12-1.1/0.18	6/12	1.1/0.18	1000/500	400	3.2/1.2	123	135



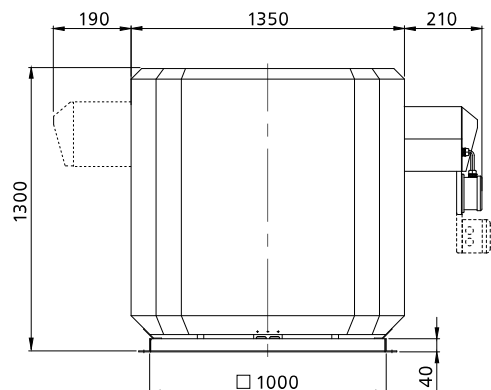
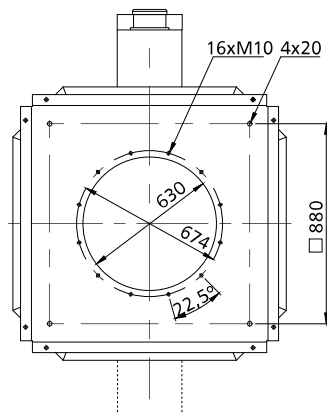
fan									sound power level Lw(A)*
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	[dB A]
mcr Pasat 50/4	61	70	85	90	92	91	86	77	96
mcr Pasat 50/6	51	61	76	81	83	81	77	68	87
mcr Pasat 50/8	43	53	67	72	74	73	68	60	79
mcr Pasat 50/4/6	61	70	85	90	92	91	86	77	96
mcr Pasat 50/4/8	61	70	85	90	92	91	86	77	96
mcr Pasat 50/6/12	51	61	76	81	83	81	77	68	87

*Sound power level Lw(A) was established for fan's highest efficiency point.

Accessories

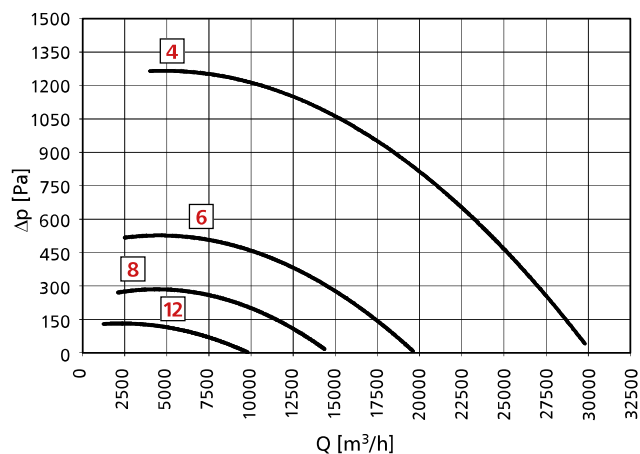


mcr Pasat 63 [I]



mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
63/4-11	4	11	1500	400/690	21.5	272	297
63/6-4	6	4	1000	400	9.4	273	298
63/8-1.5	8	1.5	750	400	3.85	259	284

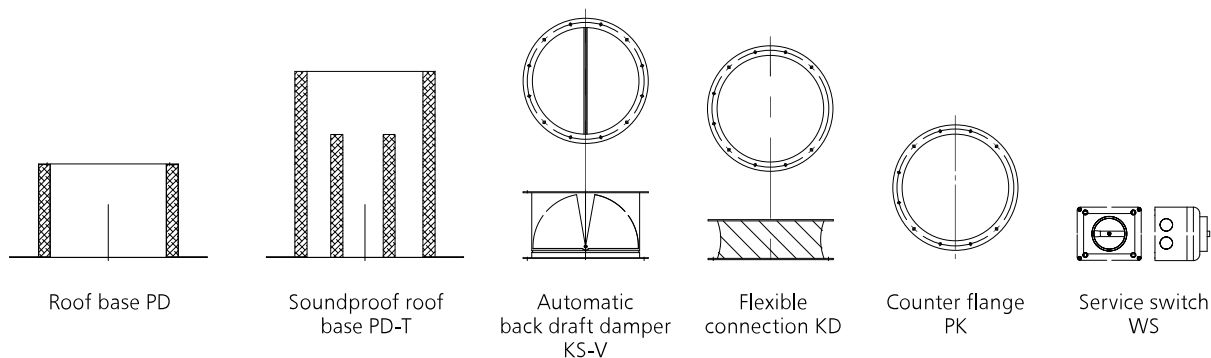
mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
63/4/6-11/3.7	4/6	11/3.7	1500/1000	400	22.6/9.3	315	340
63/4/8-11/2.8	4/8	11/2.8	1500/750	400	21.6/7.7	315	340
63/6/12-4/0.65	6/12	4/0.65	1000/500	400	10.4/3.1	290	315



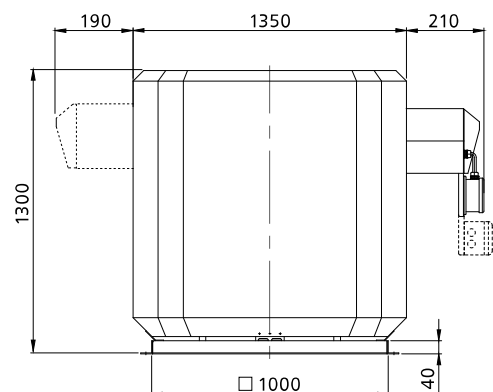
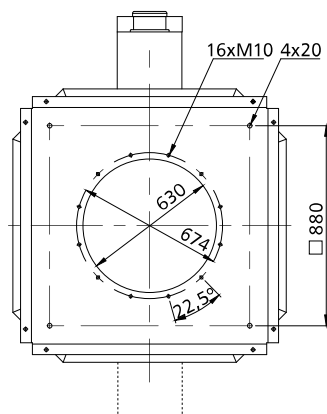
fan									sound power level Lw(A)*
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	[dB A]
mcr Pasat 63/4	64	74	88	93	95	94	89	81	100
mcr Pasat 63/6	56	66	80	85	87	86	81	73	92
mcr Pasat 63/8	50	59	74	79	81	80	75	66	85
mcr Pasat 63/4/6	64	74	88	93	95	94	89	81	100
mcr Pasat 63/4/8	64	74	88	93	95	94	89	81	100
mcr Pasat 63/6/12	56	66	80	85	87	86	81	73	92

*Sound power level Lw(A) was established for fan's highest efficiency point.

Accessories

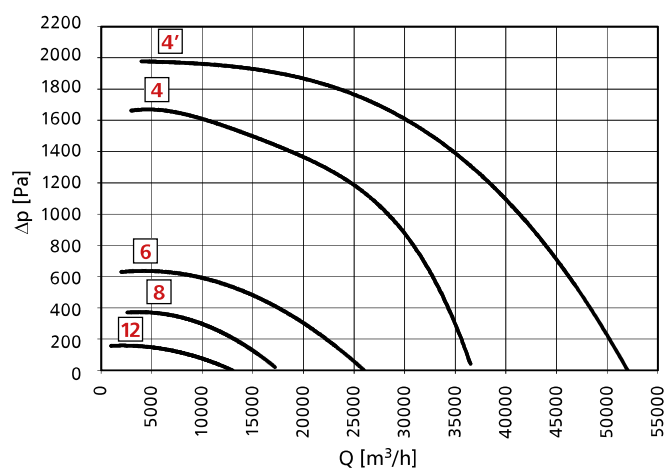


mcr Pasat 63 [II]



mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
63/4-30	4'	30	1500	400/690	58.2	439	468
63/4-18.5	4	18.5	1500	400/690	35.5	343	368
63/6-5.5	6	5.5	1000	400/690	12.6	282	307
63/8-2.2	8	2.2	750	400	5.7	271	296

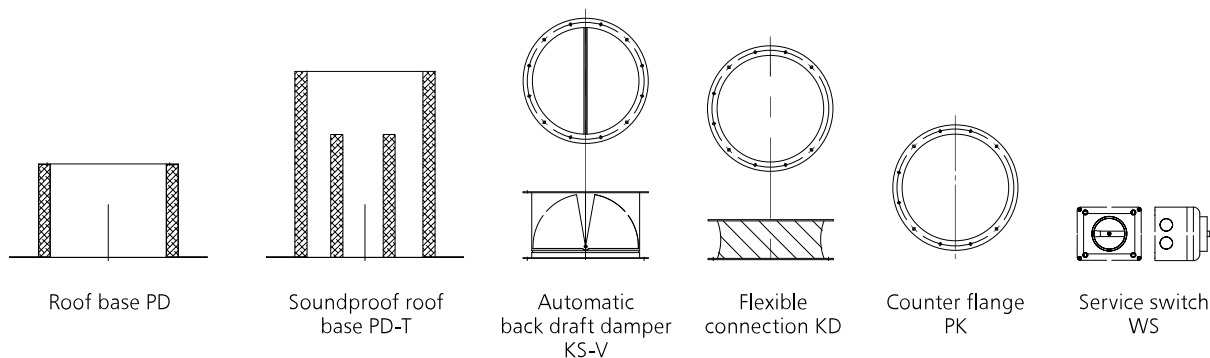
mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
63/4/6-18.5/6.5	4/6	18.5/6.5	1500/1000	400	34.1/14.8	366	391
63/4/8-18.5/4.8	4/8	18.5/4.8	1500/750	400	36.6/12.1	342	367
63/6/12-5.5/1	6/12	5.5/1	1000/500	400	14.1/5.4	298	323



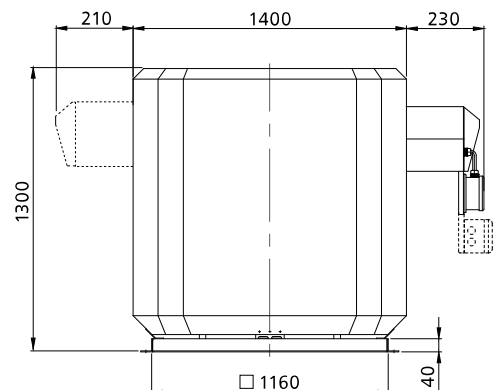
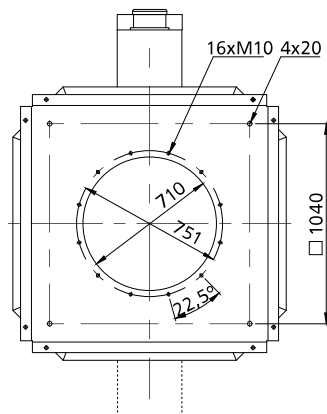
fan									sound power level Lw(A)*
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	[dB A]
mcr Pasat 63/4'	72	81	96	101	103	102	97	88	107
mcr Pasat 63/4	68	78	93	98	100	98	94	85	104
mcr Pasat 63/6	58	68	83	88	90	88	84	75	94
mcr Pasat 63/8	50	55	74	75	81	80	75	66	85
mcr Pasat 63/4/6	68	78	93	98	100	98	94	85	104
mcr Pasat 63/4/8	68	78	93	98	100	98	94	85	104
mcr Pasat 63/6/12	58	68	83	88	90	88	84	75	94

*Sound power level Lw(A) was established for fan's highest efficiency point.

Accessories

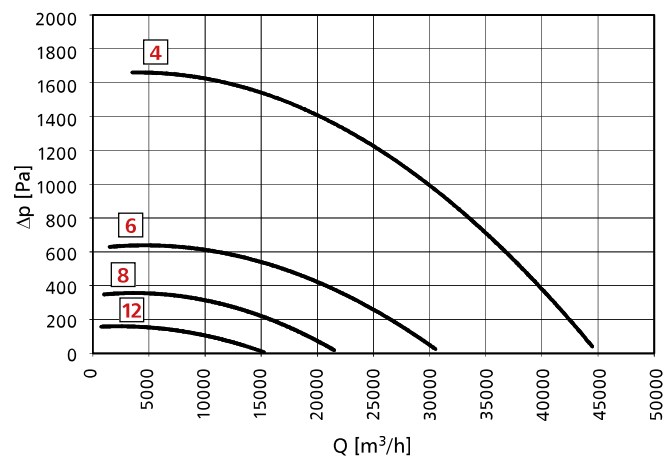


mcr Pasat 71 [I]



mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
71/4-18.5	4	18.5	1500	400/690	35.5	368	397
71/6-5.5	6	5.5	1000	400/690	12.6	307	336
71/8-2.2	8	2.2	750	400	5.7	296	325

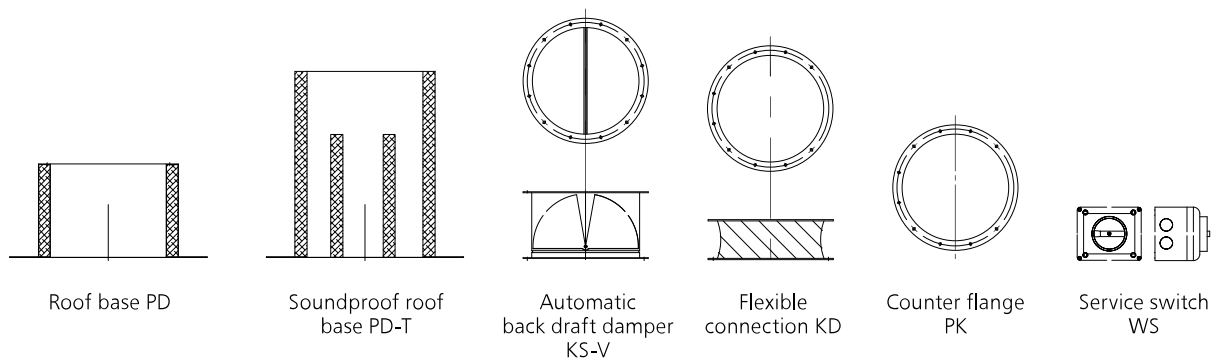
mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
71/4/6-18.5/6.5	4/6	18.5/6.5	1500/1000	400	34.1/14.8	391	420
71/4/8-18.5/4.8	4/8	18.5/4.8	1500/750	400	36.6/12.1	367	396
71/6/12-5.5/1	6/12	5.5/1	1000/500	400	14.1/5.4	323	352



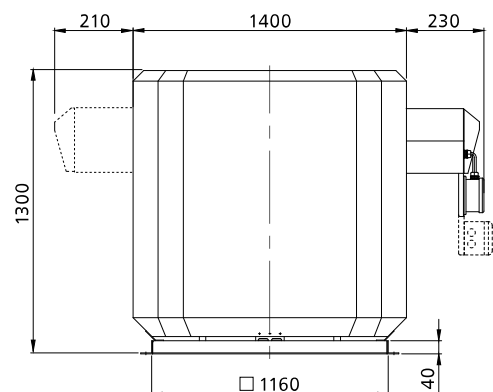
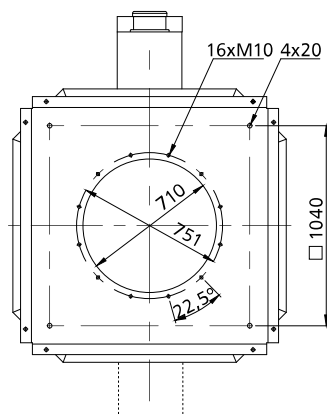
fan									sound power level Lw(A)*
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	[dB A]
mcr Pasat 71/4	68	78	92	97	99	98	93	85	104
mcr Pasat 71/6	58	68	83	88	90	88	84	75	94
mcr Pasat 71/8	52	62	76	81	83	82	77	68	88
mcr Pasat 71/4/6	68	78	92	97	99	98	93	85	104
mcr Pasat 71/4/8	68	78	92	97	99	98	93	85	104
mcr Pasat 71/6/12	58	68	83	88	90	88	84	75	94

*Sound power level Lw(A) was established for fan's highest efficiency point.

Accessories

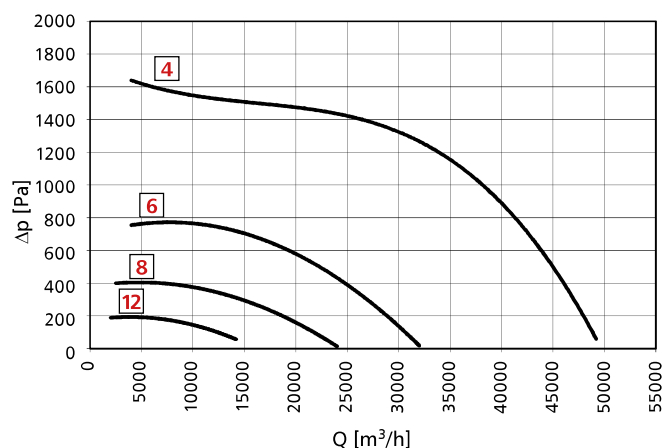


mcr Pasat 71 [III]



mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
71/4-22	4	22	1500	400/690	41.5	400	429
71/6-7.5	6	7.5	1000	400/690	17	332	361
71/8-3	8	3	750	400	7.6	304	333

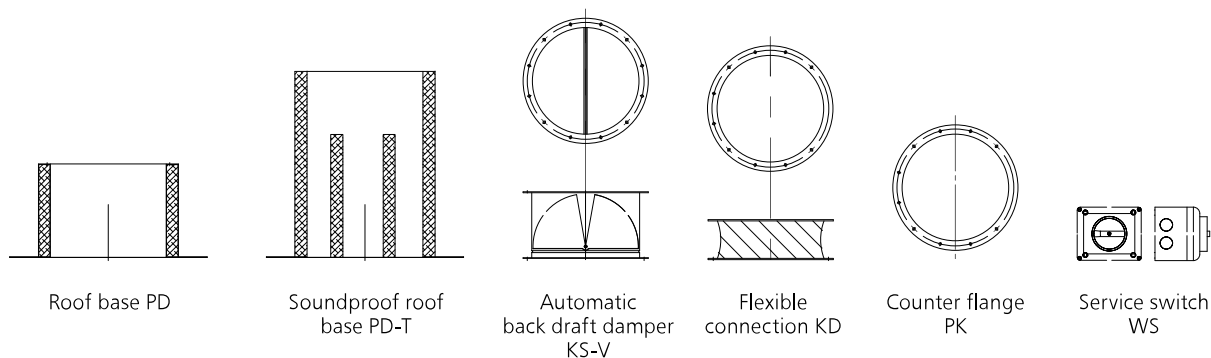
mcr Pasat	no.	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
71/4/6-22/7.5	4/6	22/7.5	1500/1000	400	41.5/16.6	410	439
71/4/8-22/5.3	4/8	22/5.3	1500/750	400	40.9/13.2	405	434
71/6/12-7.5/1.3	6/12	7.5/1.3	1000/500	400	17.5/5.5	341	370



fan									sound power level Lw(A)*
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	[dB A]
mcr Pasat 71/4	69	79	94	99	101	99	95	86	105
mcr Pasat 71/6	61	71	86	91	93	91	87	78	97
mcr Pasat 71/8	54	64	78	83	85	84	79	71	90
mcr Pasat 71/4/6	69	79	94	99	102	99	95	86	105
mcr Pasat 71/4/8	69	79	94	99	101	99	95	86	105
mcr Pasat 71/6/12	61	71	86	91	93	91	87	78	97

*Sound power level Lw(A) was established for fan's highest efficiency point.

Accessories



1.5. accessories

1.5.1. roof bases PD, PD-T

The base for installing a fan on the roof. It is installed to the fan housing (i.e. mounting plate) with M10 or M14 bolts, depending on the fan size.

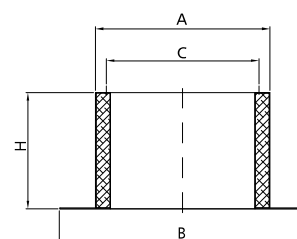
Standard bases are made of galvanized steel sheet.

Available versions:

Roof base PD - for flat and pitched roofs

Roof base PD-T - with noise insulation, for flat and pitched roofs

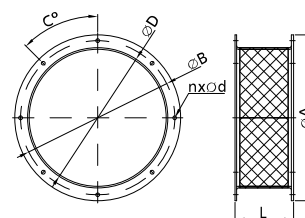
slip-on roof bases PD; PD-T							
fan	type	A [mm]	B [mm]	C [mm]	H-PD [mm]	H-PD-T [mm]	nxM
mcr Pasat 31	PD-31	525	740	460	350	900	4xM10
mcr Pasat 35	PD-35	675	870	600	350	900	4xM10
mcr Pasat 40	PD-40	675	870	600	350	900	4xM10
mcr Pasat 50	PD-50	965	1150	880	350	900	4xM12
mcr Pasat 63	PD-63	965	1150	880	450	900	4xM13
mcr Pasat 71	PD-71	1125	1310	1040	450	900	4xM14



1.5.2. round flexible connections KD

The flexible connection KD is used for eliminating vibrations generated during operation of the fan which might be transmitted to the ventilation system. May also compensate thermal expansion of ducts during the operation of smoke exhaustion system.

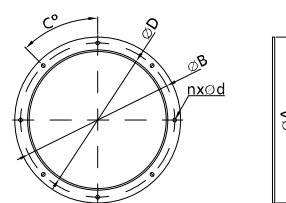
flexible connections KD								
fan	type	D [mm]	~A [mm]	B [mm]	L [mm]	C [°]	nx d [mm]	m [kg]
mcr Pasat 31	KD-31	315	385	356	150	45	8x9.6	1.0
mcr Pasat 35	KD-35	355	425	395	150	45	8x9.6	1.1
mcr Pasat 40	KD-40	400	470	438	150	30	12x9.6	1.3
mcr Pasat 50	KD-50	500	570	541	150	30	12x9.6	1.6
mcr Pasat 63	KD-63	630	710	674	200	22.5	16x10.5	2.0
mcr Pasat 71	KD-71	710	790	751	200	22.5	16x10.5	2.3



1.5.3. counter flanges PK

The counter flange is designed for installing flexible connections KD to mcr Pasat fan and the ventilation system. It is made of powder-coated steel sheet as standard.

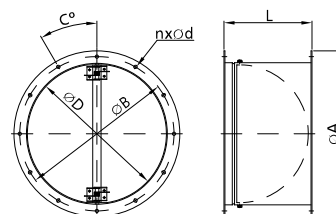
counter flanges PK							
fan	type	D [mm]	~A [mm]	B [mm]	C [°]	nx d [mm]	m [kg]
mcr Pasat 31	PK-31	315	385	356	45	8x9.6	0.9
mcr Pasat 35	PK-35	359	425	395	45	8x9.6	0.9
mcr Pasat 40	PK-40	404	470	438	30	12x9.6	1.0
mcr Pasat 50	PK-50	504	570	541	30	12x9.6	1.3
mcr Pasat 63	PK-63	634	710	674	22.5	16x10.5	1.8
mcr Pasat 71	PK-71	716	790	751	22.5	16x10.5	2.0



1.5.4. automatic back draft dampers KS-V

The automatic back draft damper KS-V prevents outside air from entering the building's interior during the fan's standstill which significantly lowers heat losses in winter and prevents uncontrolled air circulation. The device's housing is made of powder-painted steel sheet, with the flap itself made of sheet aluminium.

automatic back draft dampers KS-V								
fan	type	D [mm]	~A [mm]	B [mm]	L [mm]	C [°]	nxd [mm]	m [kg]
mcr Pasat 31	KS-V-31	315	385	356	220	45	8x9.6	5.7
mcr Pasat 35	KS-V-35	355	425	395	240	45	8x9.6	6.6
mcr Pasat 40	KS-V-40	400	470	438	250	30	12x9.6	7.6
mcr Pasat 50	KS-V-50	500	570	541	320	30	12x9.6	11.3
mcr Pasat 63	KS-V-63	630	710	674	360	22.5	16x10.5	16.2
mcr Pasat 71	KS-V-71	710	790	751	430	22.5	16x10.5	20.8

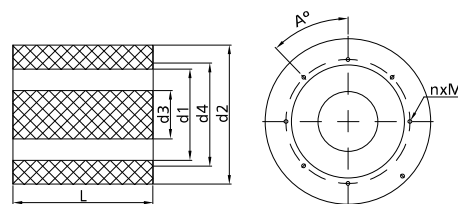


1.5.5. noise silencers TH

The noise silencer TH is designed to reduce the noise generated during fan operation in the ventilation system. The silencer's housing is made of galvanised steel sheet with core and internal part made of perforated zinc coated sheet. High-temperature wool with increased sound absorbing characteristics is used for damping.

The threaded holes in the silencer allow direct fastening on the fan housing flange. In this case, seal the joint with high-temperature silicone.

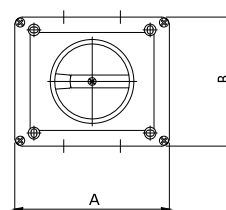
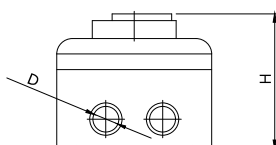
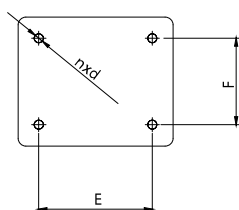
noise silencers TH									
fan	type	d1 [mm]	d2 [mm]	d3 [mm]	d4 [mm]	L [mm]	A [°]	nxM [mm]	m [kg]
mcr Pasat 31	TH-31	315	380	180	356	950	45	8xM8	35
mcr Pasat 35	TH-35	359	550	200	395	950	45	8xM8	41
mcr Pasat 40	TH-40	404	600	220	438	950	30	12xM8	53
mcr Pasat 50	TH-50	504	700	280	541	950	30	12xM8	62
mcr Pasat 63	TH-63	634	830	355	674	950	22.5	16xM8	78
mcr Pasat 71	TH-71	710	960	400	751	1400	22.5	16xM8	122



1.5.6. service switches WS

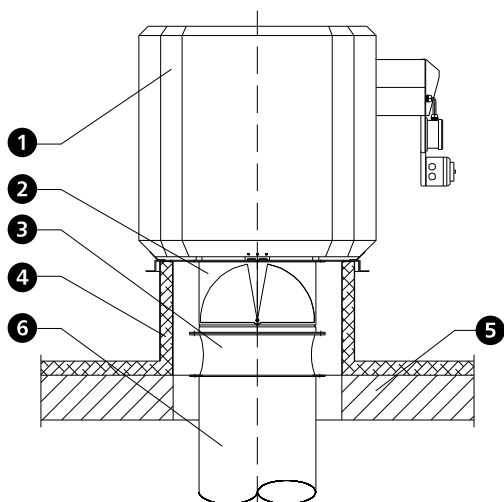
The service switch WS is designed for cutting off power from fan for the period of servicing. The switch has an extra auxiliary contact for signaling the cut-off position in case of not returning the switch to original position, i.e. power supply to fan after service inspection. For installation directly on the fan's housing, use special support bracket. The 3-pole service switch is designed for one-speed 230/400V motors and the 6-pole switch for one- and two-speed motors rated at 400/690 V and two-speed motors rated at 400/400 V.

service switches WS										
type	A [mm]	B [mm]	E [mm]	F [mm]	H [mm]	nxd [mm]	U [V]	I [A]	glands D [mm]	comments
WS-16/3	90	90	67	48	95	4x4	690	16	M20[x4]	3-pole
WS-16/6	90	90	67	48	95	4x4	690	16	M20[x4]	3-pole
WS-32/6	116	100	90	52	108	4x4	690	32	M25[x4]	6-pole
WS-63/6	170	155	105	95	185	4x6	690	63	M25/M32[x4]	6-pole
WS-100/6	200	180	130	125	200	4x6	690	100	M32/M40[x4]	6-pole

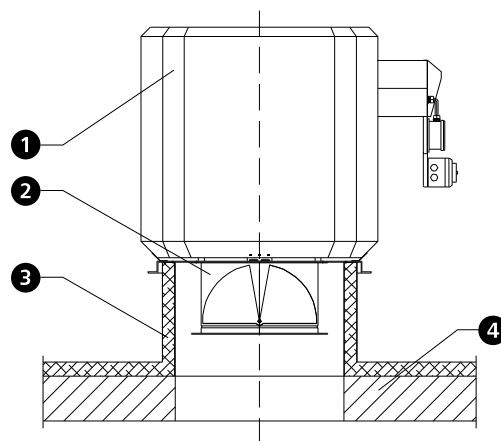


1.6. installation

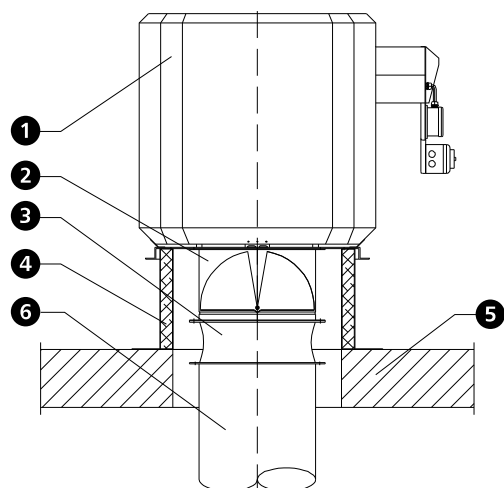
The fan's design enables the installation on a roof base or a square brick pedestal.

1.6.1. sample fan installation on a flat roof


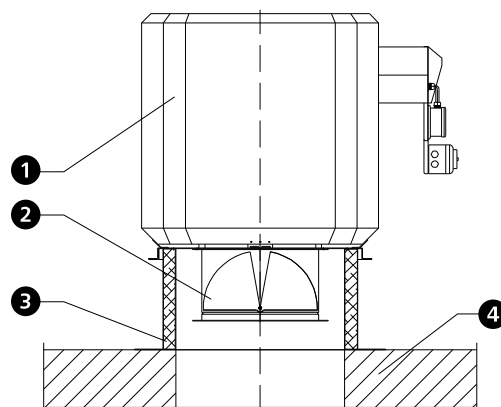
- 1. mcr Pasat fan
- 2. automatic back draft damper KS-V (option)
- 3. flexible connection KD with counter flange (option)
- 4. pedestal, installed during construction
- 5. flat roof
- 6. ventilation duct



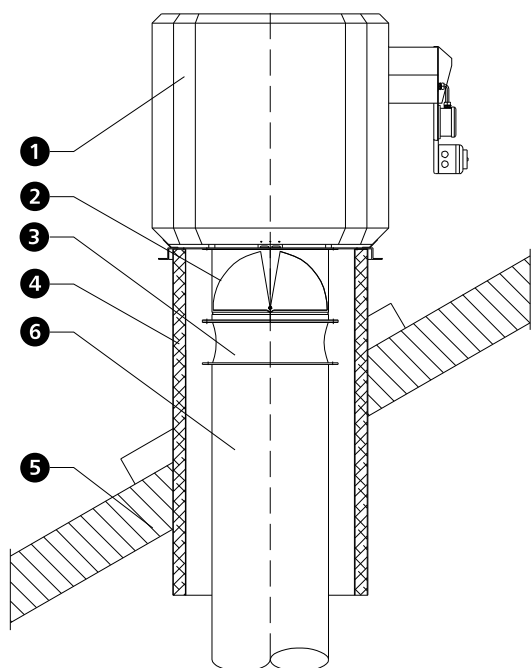
- 1. mcr Pasat fan
- 2. automatic back draft damper KS-V (option)
- 3. pedestal, installed during construction
- 4. flat roof



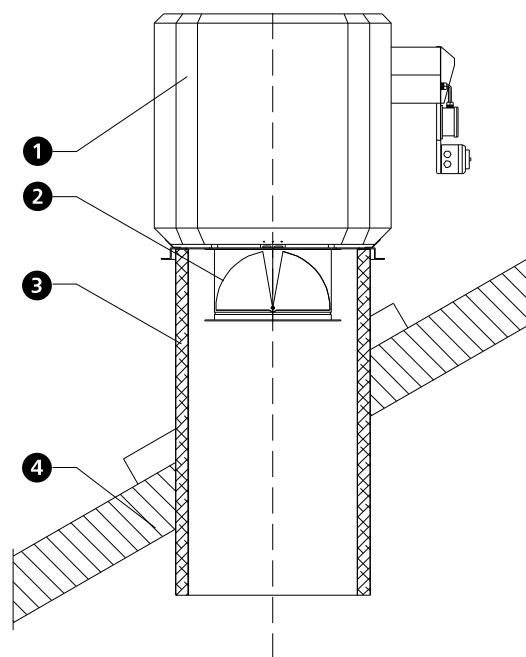
- 1. mcr Pasat fan
- 2. automatic back draft damper KS-V (option)
- 3. flexible connection KD with counter flange (option)
- 4. slip-on roof base PD (option)
- 5. flat roof
- 6. ventilation duct



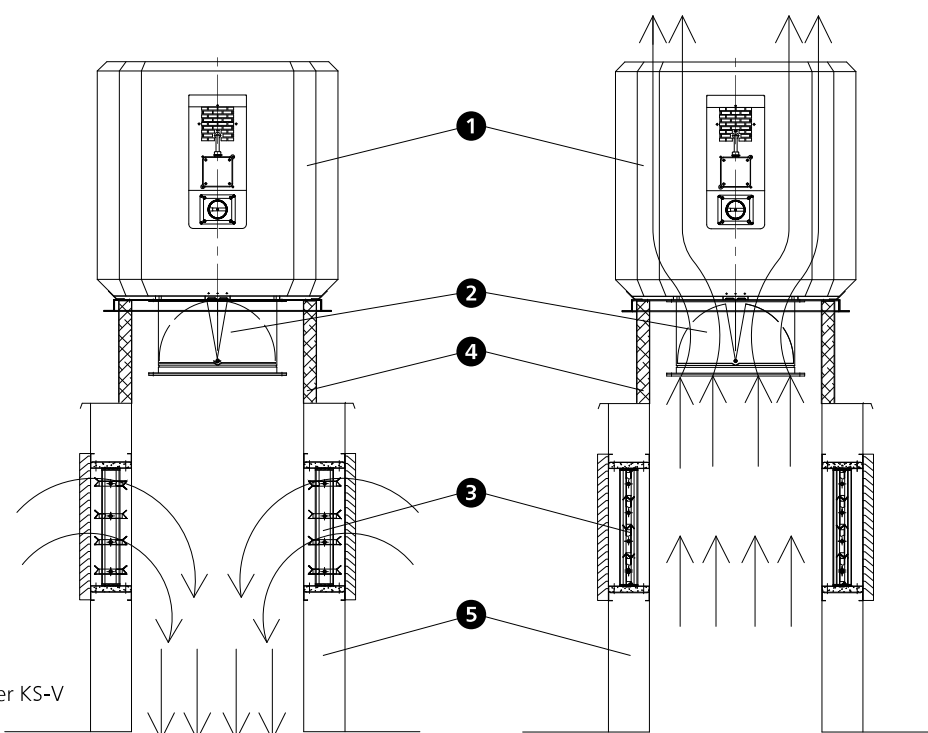
- 1. mcr Pasat fan
- 2. automatic back draft damper KS-V (option)
- 3. slip-on roof base PD (option)
- 4. flat roof

1.6.2. sample fan installation on a pitched roof


1. mcr Pasat fan
2. automatic back draft damper KS-V (option)
3. flexible connection KD with counter flange (option)
4. roof base PD for pitched roof (option)
5. pitched roof
6. ventilation duct

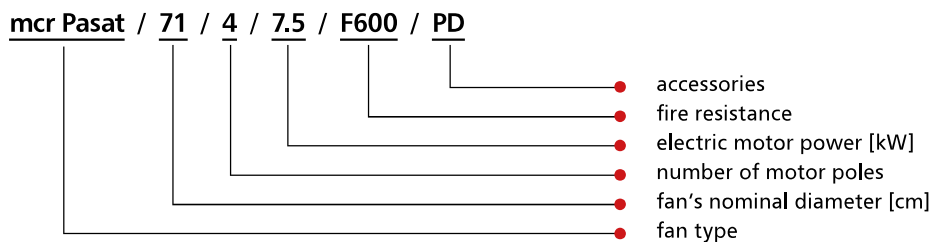


1. mcr Pasat fan
2. automatic back draft damper KS-V (option)
3. roof base PD for pitched roof (option)
4. pitched roof

1.6.3. sample installation of fan on concrete pedestal with a dedicated damper mcr WIP for natural ventilation and extracting smoke from underground garages


1. mcr Pasat fan
2. automatic back draft damper KS-V (option)
3. mcr WIP damper
4. slip-on roof base PD (option)
5. concrete pedestal

1.7. designation



1.8. power supply and control

The detailed information and electrical connection diagrams for specific models of fans are included in the operation and maintenance manuals. It is recommended to use a dedicated, certified power supply and control unit **mcr Omega C2100c**.

General power supply and control diagram for mcr Pasat fans using mcr Omega unit:

