



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

mcr Pasat

roof-mounted smoke extraction fans

APPLICATION

mcr Pasat roof-mounted smoke extraction fans are designed to extract smoke and heat from fire-exposed areas. They are also suitable for comfort and industrial ventilation systems. mcr Pasat fans can be used e.g. in public utility buildings, multi-dwelling buildings, industrial facilities, underground car parks or shopping malls.

mcr Pasat tested in accordance with EN 12101-3.
Accompanied by Certificates of Conformity no. CE 1488-CPD-0209/W, CE 1488-CPR-0526/W.

FIRE RESISTANCE RATING

► F600 (600°C/1H)

► F400 (400°C/2H)

► F300 (300°C/1H)

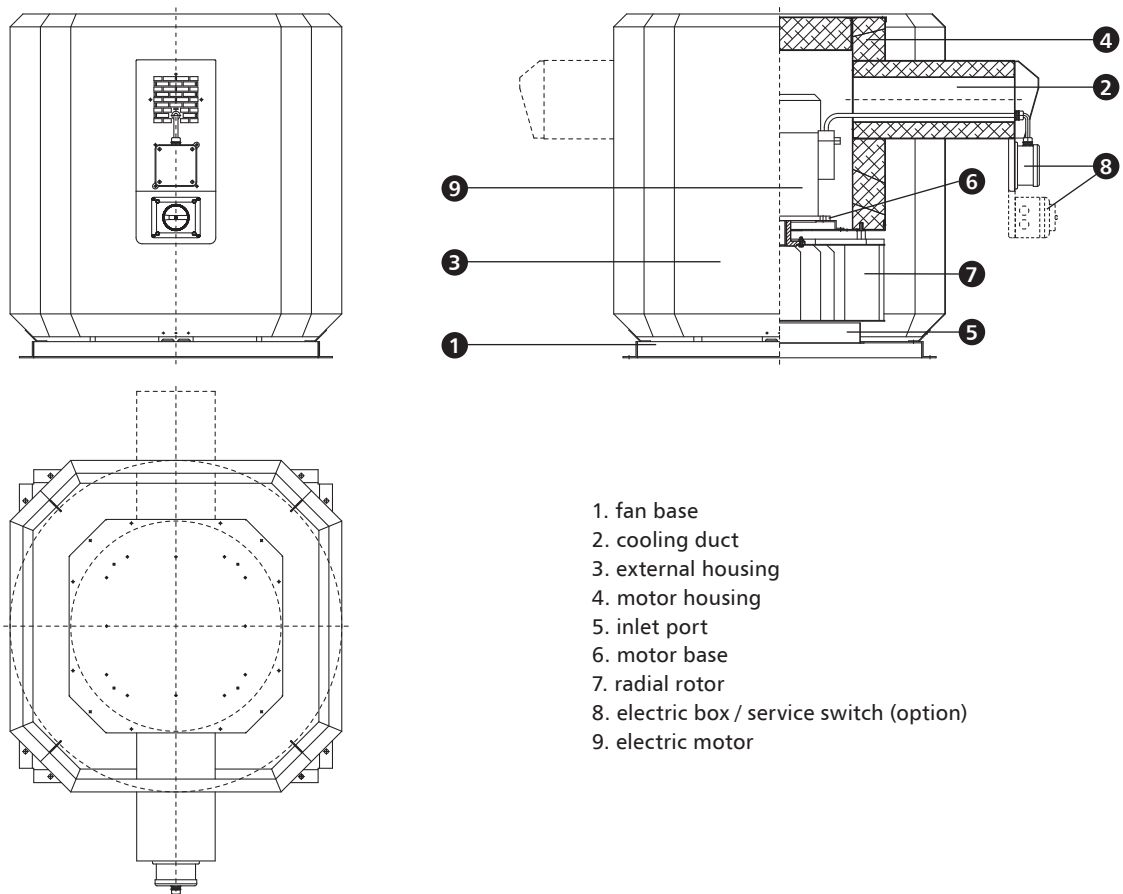
► F200 (200°C/2H)

DESIGN

The **housing** is made of sheet aluminium of a thickness of 1-4 mm, according to the size of the fan. The design allows for draining rain water, melting snow or condensed steam contained in the air drawn from outside.

The radial **rotor** of the fan is mounted directly on the motor pin. The air inlet is regulated by the inlet port. The rotor is provided with blades bent backwards for one-sided suction. It is also provided with blades used for generating negative pressure in the motor bay. Air is therefore drawn from outside via the cooling duct.

Depending on requirements, the fan can be used with a three-phase, one- or two-speed **motor** with rpm speeds of 3000, 1500, 1000 and 750, without serially-mounted thermal protection, with Class F insulation and mechanical protection degree IP 54.



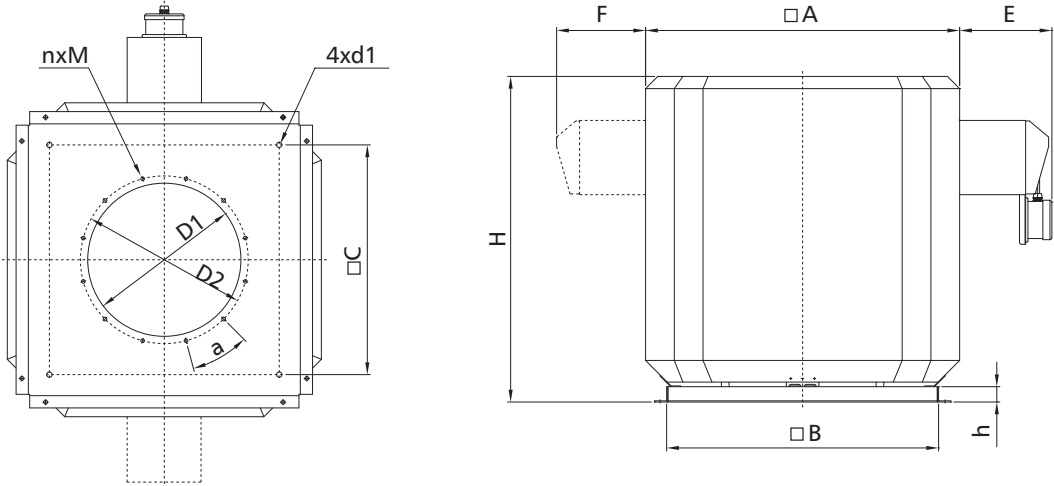
DIMENSIONS



mcr Pasat roof-mounted smoke extraction fans are available with rotors in six diameters: 315 mm, 355 mm, 400 mm, 500 mm, 630 mm, 710 mm.

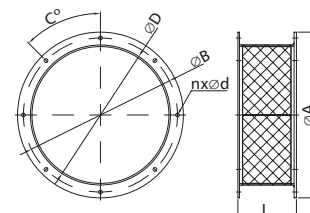
Table 1 mcr Pasat fan dimensions.

type	A [mm]	E [mm]	F [mm]	B [mm]	H [mm]	h [mm]	C [mm]	D1 [mm]	D2 [mm]	d1 [mm]	nxM [mm]	a [°]
mcr Pasat 31	700	170	0	560	700	40	460	315	356	12	8xM8	45
mcr Pasat 35	800	170	0	710	750	40	600	355	395	12	8xM8	45
mcr Pasat 40	880	170	0	710	850	40	600	400	438	14	12xM8	30
mcr Pasat 50	1100	170	0	1000	900	40	880	500	541	14	12xM8	30
mcr Pasat 63	1350	210	190	1000	1300	40	880	630	674	20	16xM10	22,5
mcr Pasat 71	1400	230	210	1160	1300	40	1040	710	751	20	16xM10	22,5

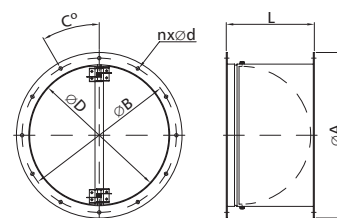


- ▶ automatic backdraft damper for ducted connection **KS[V]**
- ▶ flexible connection **KD**
- ▶ roof cover base for flat and slanting roofs **PD**
- ▶ roof cover base with noise suppressor for flat and slanting roofs **PD-T**
- ▶ service switch **WS**

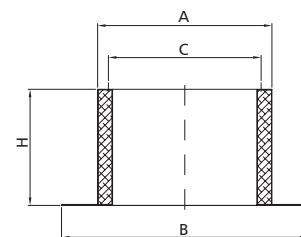
flexible connection KD								
fan	type	D [mm]	~A [mm]	B [mm]	L [mm]	C [°]	nxd [mm]	m [kg]
mcr Pasat 31	KD-31	315	385	356	150	45	8x9,6	1,0
mcr Pasat 35	KD-35	355	425	395	150	45	8x9,6	1,1
mcr Pasat 40	KD-40	400	470	438	150	30	12x9,6	1,3
mcr Pasat 50	KD-50	500	570	541	150	30	12x9,6	1,6
mcr Pasat 63	KD-63	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



automatic backdraft damper for ducted connection 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

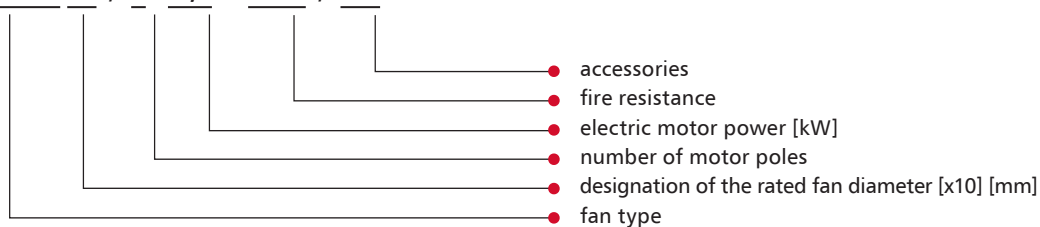


roof cover bases PD; PD-T							
fan	type	A [mm]	B [mm]	C [mm]	H-PD [mm]	H-PD-T [mm]	nxM
mcr Pasat 31	PD-31	525	740	460	350	900	4xM10
mcr Pasat 35	PD-35	675	870	600	350	900	4xM10
mcr Pasat 40	PD-40	675	870	600	350	900	4xM10
mcr Pasat 50	PD-50	965	1150	880	350	900	4xM12
mcr Pasat 63	PD-63	965	1150	880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



TYPE MARKING

mcr Pasat 50 / 4 - 2,2 - F400 / PD



BASIC TECHNICAL PARAMETERS

Mercor's fan configurator is now available at www.mercor.com.pl. Our configurator will provide you with a fan selection detailed record sheet for the set input parameters.

Parameters in tables and specifications:

- Δp – distribution compression [Pa]
- Q – output [m³/h]
- no – specification number
- P – rated power [kW]
- n – motor speed [rpm]
- Un – rated voltage [V]
- In – rated current [A]
- m1 – estimated weight of the F400 fan without accessories [kg]
- m2 – estimated weight of the F600 fan without accessories [kg]

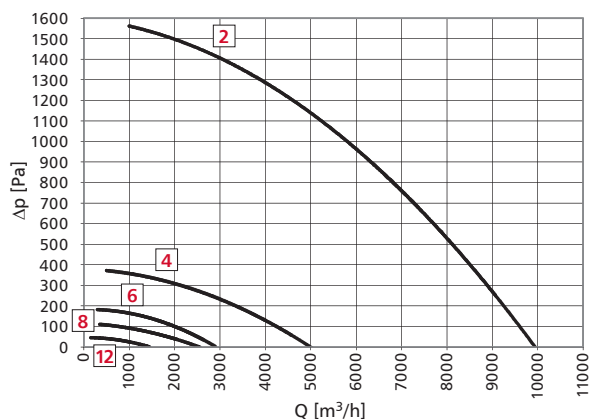
The specifications have been established at a temperature of 20°C and air density of 1.2 kg/m³.

Technical descriptions and specifications for two-speed fans are available on request.

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

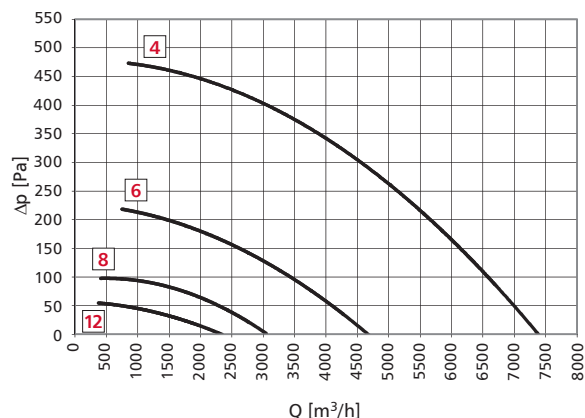
mcr Pasat	no	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
31/2/4-4,5/1,3	2/4	4,5/1,3	3000/1500	400	9,9/1,3	81	89
31/4/6-0,7/0,2	4/6	0,7/0,2	1500/1000	400	2,1/1,05	56	63
31/4/8-0,75/0,12	4/8	0,75/0,12	1500/750	400	2,3/0,9	55	63
31/6/12-0,75/0,15	6/12	0,75/0,15	1000/500	400	2,1/0,8	59	67



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

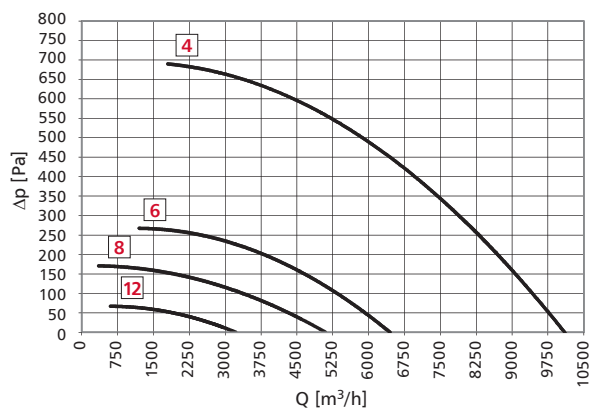


BASIC TECHNICAL PARAMETERS

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

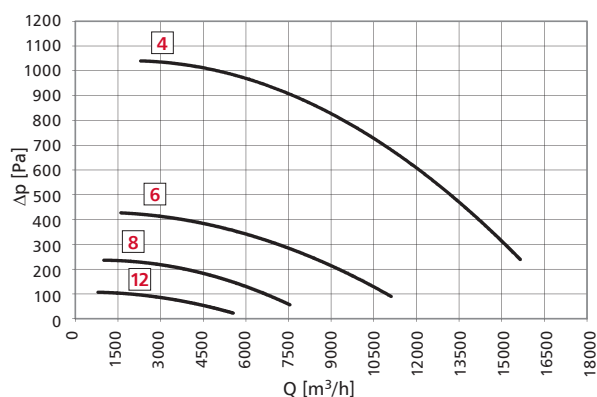
mcr Pasat	no	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
40/4/6-2,4/0,75	4/6	2,4/0,75	1500/1000	400	5,9/2,1	96	106
40/4/8-2,2/0,37	4/8	2,2/0,37	1500/750	400	5,5/2	92	102
40/6/12-0,75/0,15	6/12	0,75/0,15	1000/500	400	2,1/0,8	86	96



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

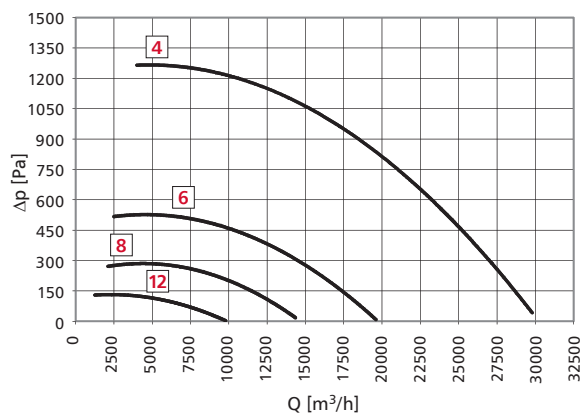
mcr Pasat	no	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
50/4/6-4/1,2	4/6	4/1,2	1500/1000	400	8,1/3	150	162
50/4/8-4/0,75	4/8	4/0,75	1500/750	400	8,7/3,5	143	155
50/6/12-1,1/0,18	6/12	1,1/0,18	1000/500	400	3,2/1,2	123	135



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

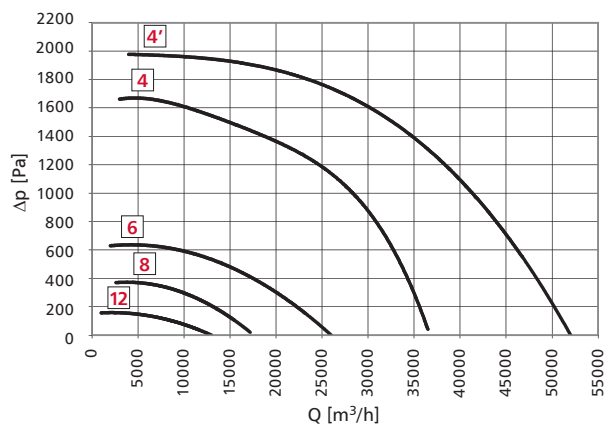


BASIC TECHNICAL PARAMETERS

mcr Pasat 63 [II]

mcr Pasat	nr	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

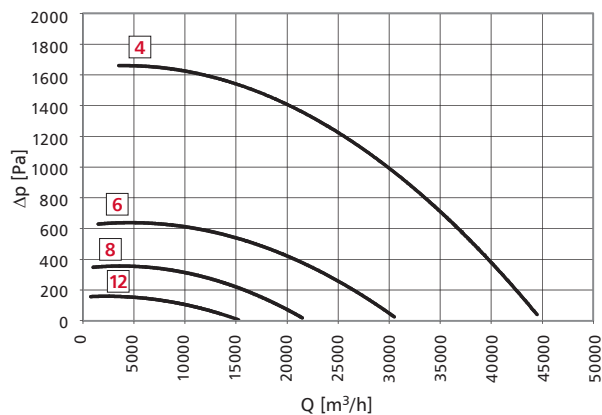
mcr Pasat	nr	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
63/4/6-18,5/6,5	4/6	18,5/6,5	1500/1000	400	34,1/14,8	366	391
63/4/8-18,5/4,8	4/8	18,5/4,8	1500/750	400	36,6/12,1	342	367
63/6/12-5,5/1	6/12	5,5/1	1000/500	400	14,1/5,4	298	323



mcr Pasat 71 [I]

mcr Pasat	nr	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

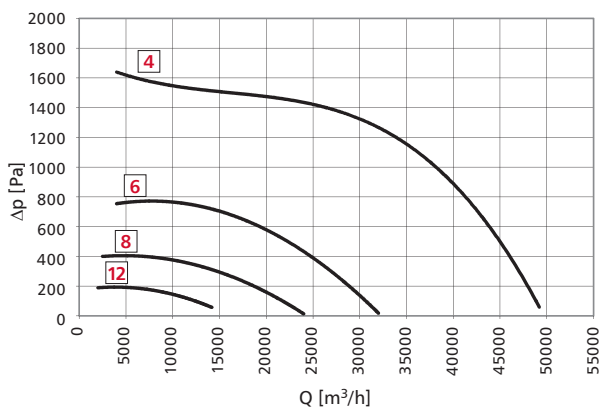
mcr Pasat	nr	P [kW]	n [1/min]	Un [V]	In [A]	m1 [kg]	m2 [kg]
71/4/6-18,5/6,5	4/6	18,5/6,5	1500/1000	400	34,1/14,8	391	420
71/4/8-18,5/4,8	4/8	18,5/4,8	1500/750	400	36,6/12,1	367	396
71/6/12-5,5/1	6/12	5,5/1	1000/500	400	14,1/5,4	323	352



mcr Pasat 71 [II]

mcr Pasat	nr	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	nr	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



FIRE PROTECTION SYSTEMS

- ▶ fire ventilation systems
- ▶ fire protection of building structures
- ▶ smoke and heat exhaust systems



Mercor SA
ul. Grzegorza z Sanoka 2
80-408 Gdańsk, Poland
tel. +48 58 341 42 45
fax +48 58 341 39 85
mercor@mercor.com.pl

www.mercor.com.pl