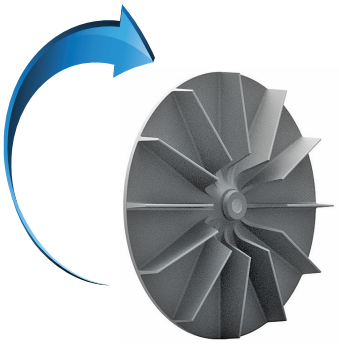


APPLICATION

Fan dedicated to polluted air exhaust systems and pneumatic transport.
Examples of use:

- local exhaust systems, dehumidifiers, drying systems,
- transport of shavings, sawdust, granulates,
- combustion gases exhaustion systems.

CONSTRUCTION

- medium-pressure, directly driven centrifugal fans,
- the impeller is made of aluminum alloy, provided with straight blades is dynamically balanced according to ISO 1940-1 (in models to 290, in models from 350 and 600 the impeller is welded of steel sheet),
- the housing is cast in aluminum alloy,
- motor support in the 600 model,
- galvanized mesh on inlet in models 200 and 600
- standard color of the fan is gray RAL 7042,
- maximum temperature of the transported medium is 80°C,
- ambient temperature range from -20°C to +40°C,
- figure LG270 (model 350 in the figure RD270).

MOTOR

- asynchronous single-phase 230V 50Hz,
- asynchronous, three-phase 230V/400V 50Hz,
- asynchronous, three-phase 400V/690V 50Hz,
- degree of protection IP55,
- insulation class F,
- three-phase motors are adapted for frequency converter.

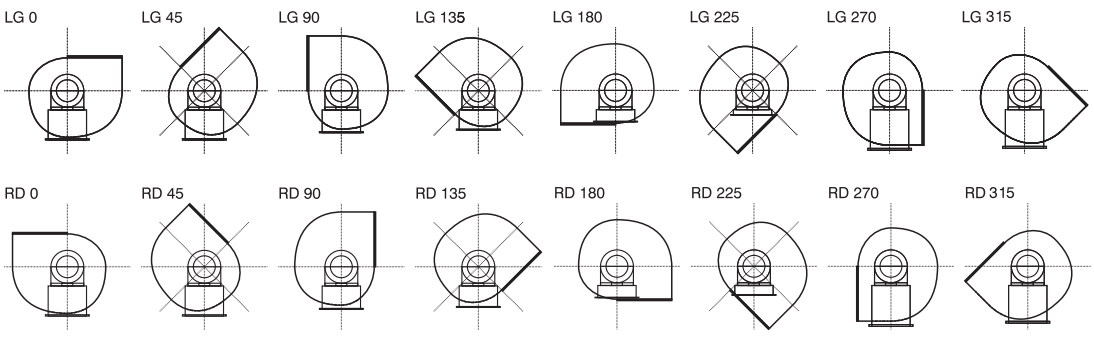
SPECIAL EXECUTIONS

- optional configuration LG/RD (in models from 160 to 290),
- color other than standard,
- painting in higher category of corrosivity,
- impeller made of galvanized steel sheet,
- impeller made of 1.4301 stainless steel sheet,
- impeller made of acid-resistant steel sheet 1.4404,
- motor with voltage and frequency of power different than standard,
- single-phase motor adapted to voltage regulation,
- motor with other than standard degree of protection,
- motor equipped with sensors or additional cooling,
- sealing between the housing and the motor,
- maximum temperature of the transported medium above 80°C,
- ambient temperature range below -20°C and above +40°C.

ErP Ready | ErP Ready Art. 3, pkt. 4c | 80°C

WWW DTR CE

FIGURES



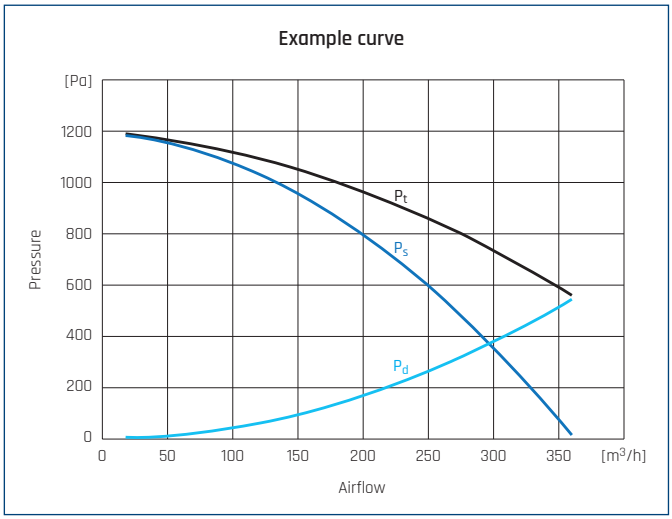
TECHNICAL CHARACTERISTICS

Type	airflow max	pressure max	maximum absorbed power	speed	maximum absorbed current	voltage	capacitor	sound pressure level*	weight	regulator	ErP	article number
	[m³/h]	[Pa]	[kW]	[r.p.m.]	[A]	[V]	[µF]	[dB(A)]	[kg]			
MPA 03S	360	1180	0,18	2780	1,6	230	8	72	9	-	not subject to	45510010
MPA 03T	360	1180	0,18	2760	0,85 0,5	230/400	-	72	9	Inverter 0,4 kW	not subject to	435510020
MPA 25S	385	1280	0,18	2780	1,6	230	8	74	10	-	not subject to	45510030
MPA 25T	385	1280	0,18	2760	0,85 0,5	230/400	-	74	10	Inverter 0,4 kW	not subject to	435510040
MPA 40S	430	2120	0,37	2760	2,2	230	25	74	16	-	not subject to	435510050
MPA 40T	430	2120	0,37	2870	1,65 0,85	230/400	-	74	16	Inverter 0,4 kW	2015	435510060
MPA 50S	645	2120	0,55	2780	3,6	230	20	75	18	-	not subject to	45510070
MPA 50T	645	2120	0,55	2790	2,15 1,25	230/400	-	75	15	Inverter 0,75 kW	2015	435510080
MPA 60S	640	2140	0,55	2870	3,1	230	35	76	24	-	2015	435510170
MPA 60T	640	2140	0,55	2870	2,15 1,25	230/400	-	76	24	Inverter 0,75 kW	2015	435510175
MPA 70S	830	2150	0,75	2800	4,2	230	50	78	21	-	2015	435510180
MPA 70T	830	2150	0,75	2890	2,95 1,7	230/400	-	76	24	Inverter 0,75 kW	2015	435510185
MPA 80S	850	2210	0,75	2800	5	230	25	78	21	-	not subject to	45510090
MPA 80T	850	2210	0,75	2890	2,95 1,7	230/400	-	78	22	Inverter 0,75 kW	2015	435510100
MPA 90S	1290	2210	1,1	2800	7,2	230	30	79	23	-	not subject to	45510110
MPA 90T	1290	2210	1,1	2890	4,3 2,5	230/400	-	79	24	Inverter 1,5 kW	2015	435510120
MPA 160T	1680	2300	2,2	2895	7,9 4,6	230/400	-	80	44	Inverter 2,2 kW	2015	435510130
MPA 290T	3560	3130	4	2895	7,3 4,2	400/690	-	88	66	Inverter 4 kW	2015	435510140
MPA 350T	4050	3730	5,5	2890	9,8 5,7	400/690	-	92	67	Inverter 5,5 kW	2015	435510150-01
MPA 600T 11kW	3660	6950	11	2900	19,1 11,1	400/690	-	94	163	Inverter 11 kW	not subject to	435510160
MPA 600T 15kW	6140	6950	15	2940	26,2 15,2	400/690	-	97	203	Inverter 15 kW	not subject to	435510160-03

*sound pressure measured at a distance of 1,5m from the fan at q=2/3*Qmax

PERFORMANCE CURVES

- p_t - total pressure
- p_s - static pressure
- p_d - dynamic pressure



ErP

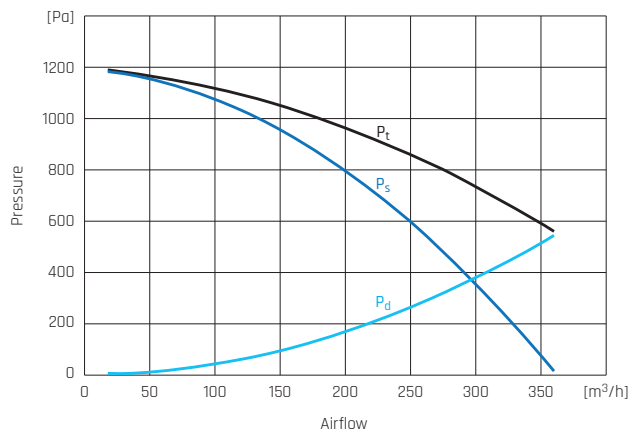
MC	Measurement category
EC	Efficiency category
VSD	Speed control: supplied with the fan
SR	Specific ratio
η [%]	Efficiency
N	Efficiency grade
[kW]	Absorbed power
[m³/h]	Airflow
[Pa]	Static pressure
[RPM]	Speed

Based on Commission Regulation (EU) No 327/2011 of 30 March 2011

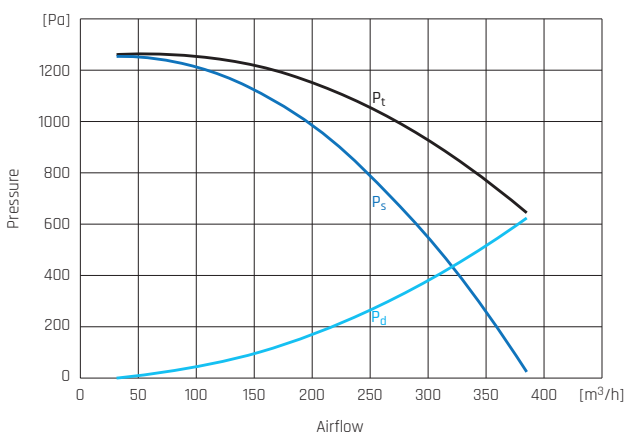
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	39,9	51	0,20	258	1095	2780

PERFORMANCE CURVES

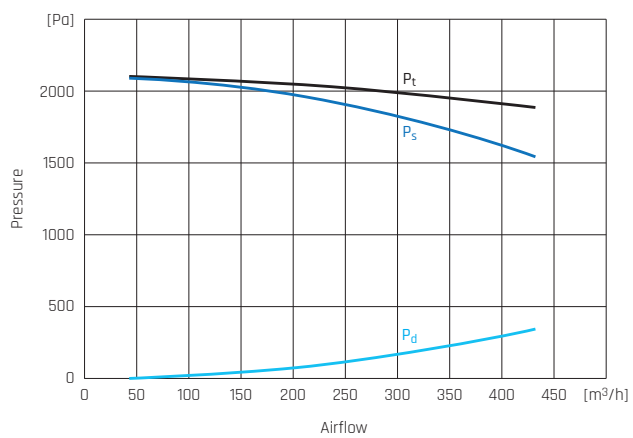
MPA 03S, MPA 03T



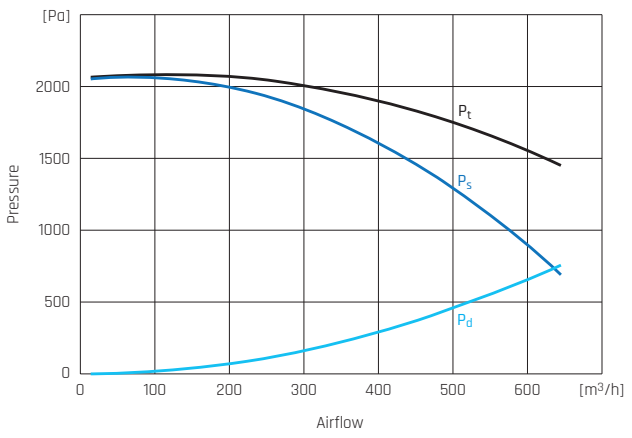
MPA 25S, MPA 25T



MPA 40S, MPA 40T



MPA 50S, MPA 50T

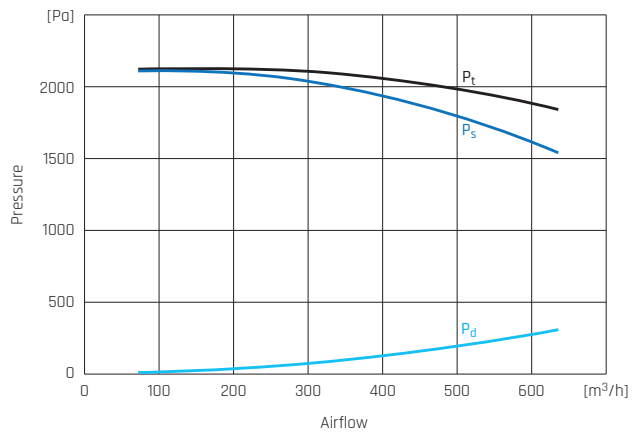


MPA 40T									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	41,1	49,5	0,48	381	1884	2890

MPA 50T									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	43,1	51,3	0,51	426	1883	2911

PERFORMANCE CURVES

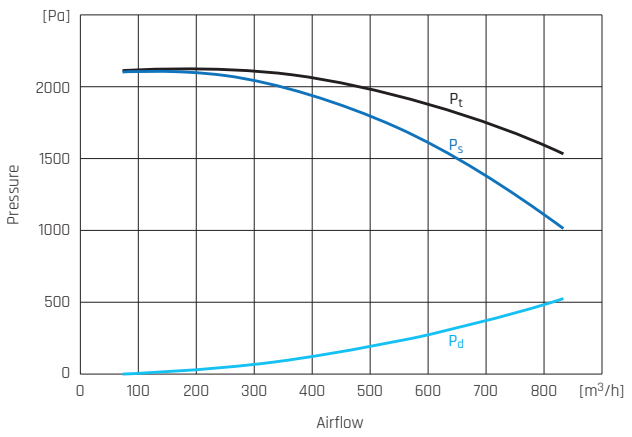
MPA 60S, MPA 60T



MPA 60S									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	43,1	50,5	0,67	545	1914	2870

MPA 60T									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	46,3	54,0	0,60	523	1912	2860

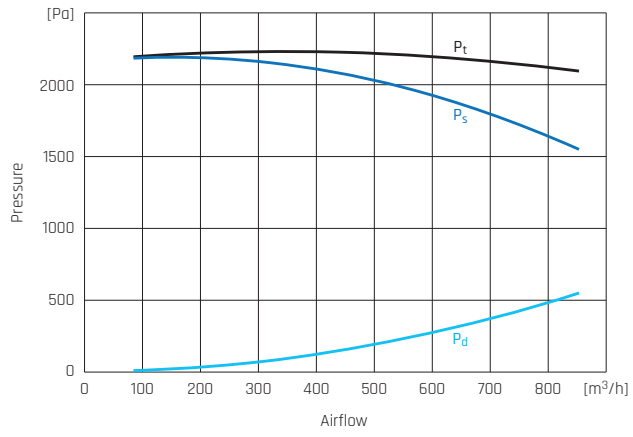
MPA 70S, MPA 70T



MPA 70S									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	41,9	49,2	0,69	546	1906	2880

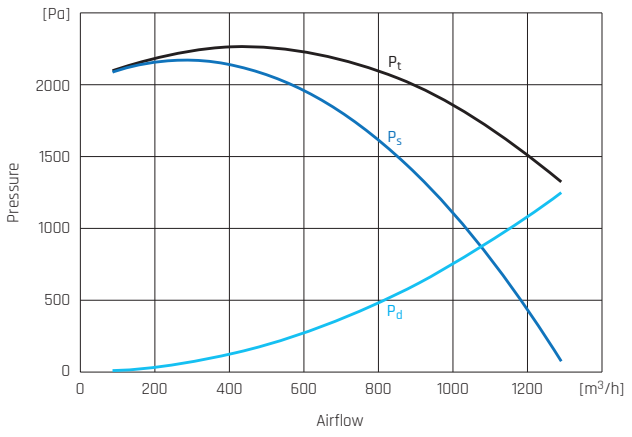
MPA 70T									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	43,2	50,5	0,69	565	1924	2890

MPA 80S, MPA 80T



MPA 80T									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	49,8	56,7	0,82	725	2058	2913

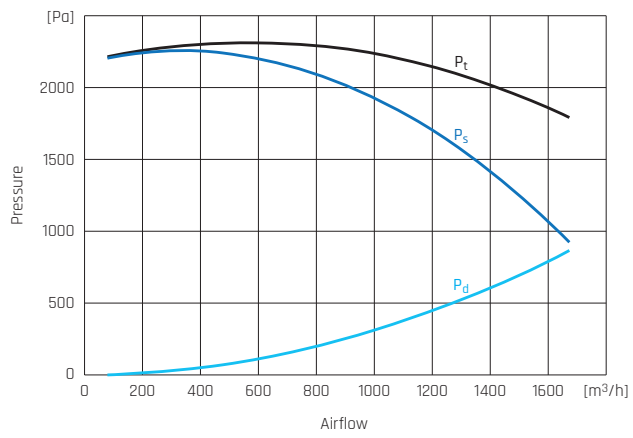
MPA 90S, MPA 90T



MPA 70S									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	49,4	56,0	0,92	775	2139	2900

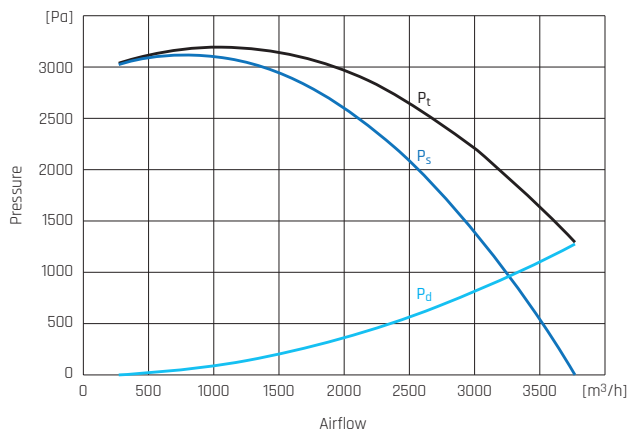
PERFORMANCE CURVES

MPA 160T



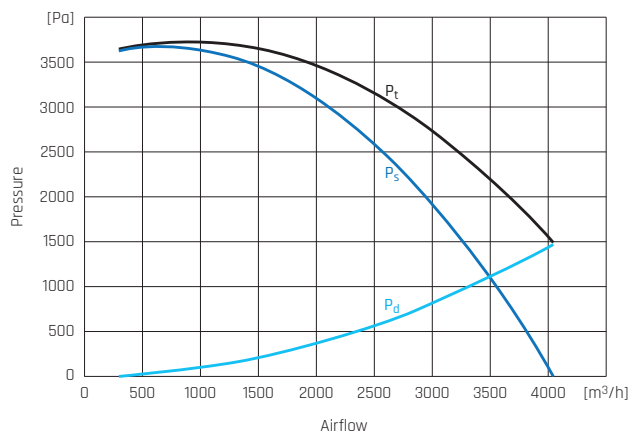
MPA 160T									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	49,9	55,2	1,43	1183	2186	2951

MPA 290T



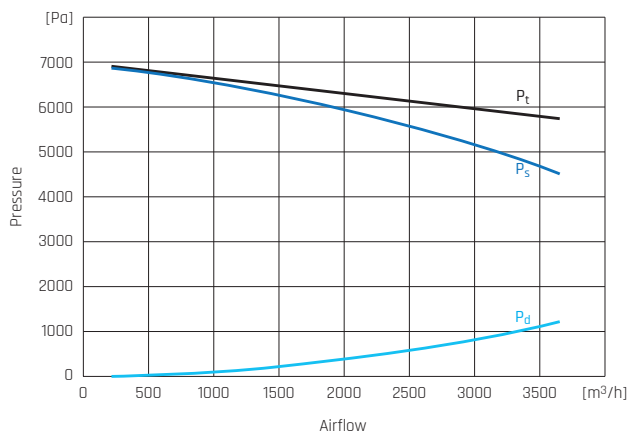
MPA 290T									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	56,8	60,2	2,88	1997	2975	2934

MPA 350T

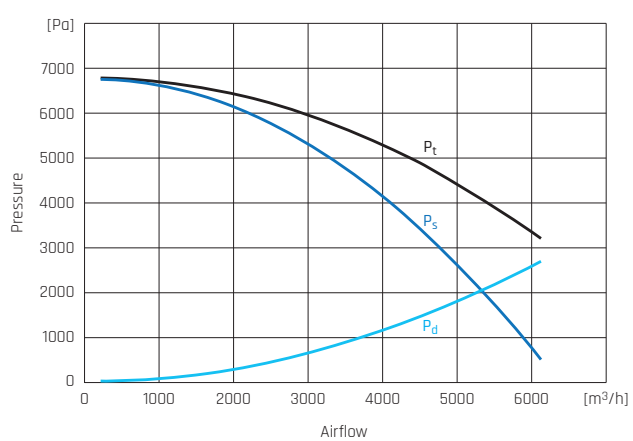


MPA 350T									
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	50,5	53,0	4,12	2234	3350	2870

MPA 600T 11kW

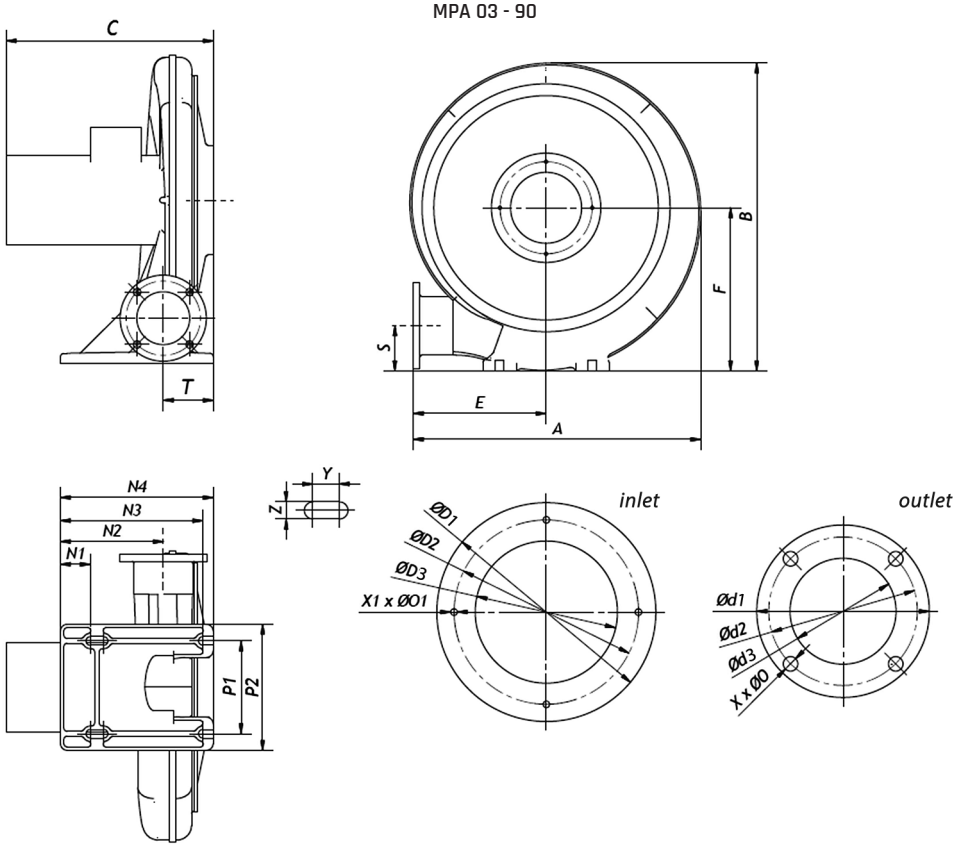


MPA 600T 15kW



DIMENSIONS [mm]

MPA 03 - 90

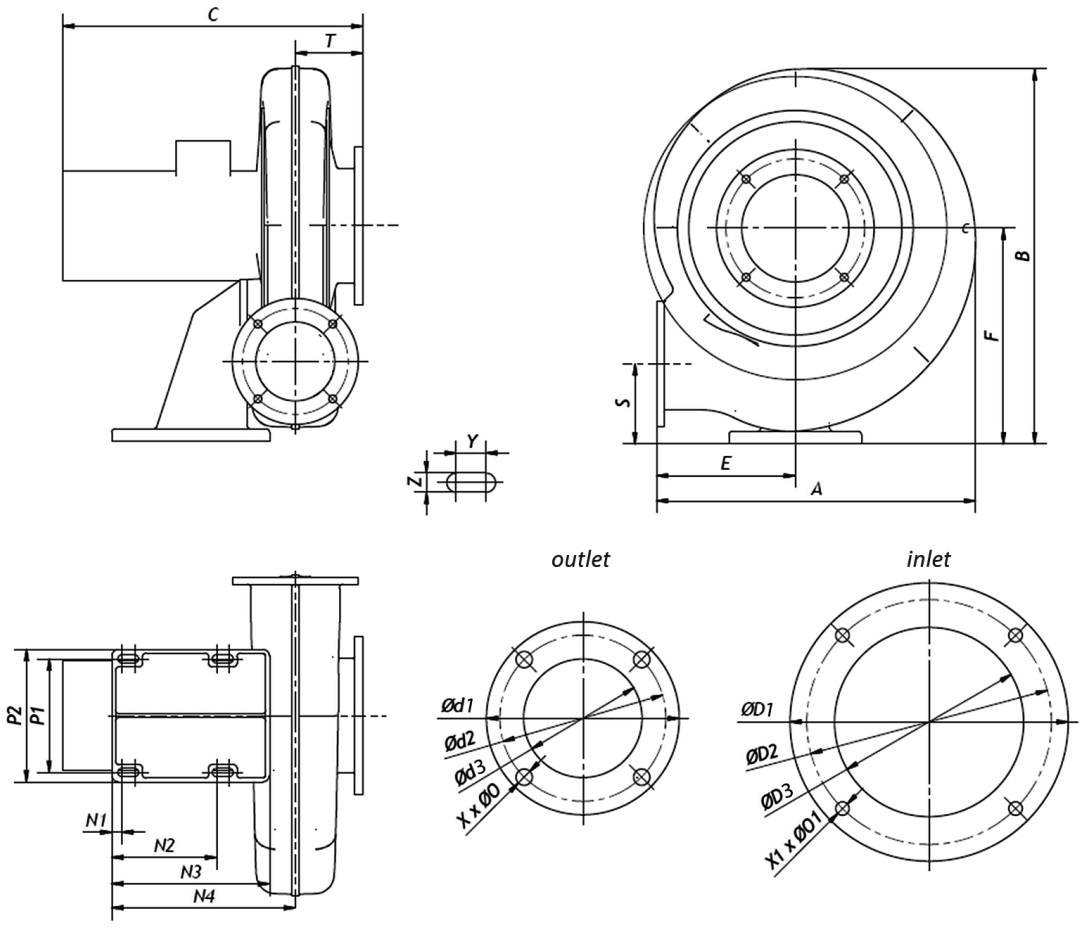


Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	Ø0	Ø01	P1	P2	S	T	X	X1	Y	Z
MPA 03	327	333	245	165	139	100	115	95	65	160	174	30	108	159	180	10	M6	80	120	59	64	4	4	19	12
MPA 25	327	333	245	165	139	100	115	95	65	160	174	30	108	159	180	10	M6	80	120	59	64	4	4	19	12
MPA 40	433	464	295	165	139	107	130	112	80	200	246	45	155	215	231	11	M6	140	190	68	76	4	4	20	13
MPA 50	433	464	312	165	139	107	130	112	80	200	246	45	155	215	231	11	M8	140	190	68	76	4	4	20	13
MPA 60	451	515	317	200	182	162	165	139	100	210	290	47	156	215	240	9,5	M8	140	200	91	58	4	4	20	13
MPA 70	451	515	328	200	182	162	165	139	100	210	290	47	156	215	240	9,5	M8	140	200	91	58	4	4	20	13
MPA 80	453	486	341	200	182	138	160	135	100	210	261	45	155	225	240	11	M8	140	190	82	85	4	4	20	13
MPA 90	453	486	341	200	182	138	160	135	100	210	261	45	155	225	240	11	M8	140	190	82	85	4	4	20	13

* dimension C dependent on the used motor

DIMENSIONS [mm]

MPA 160

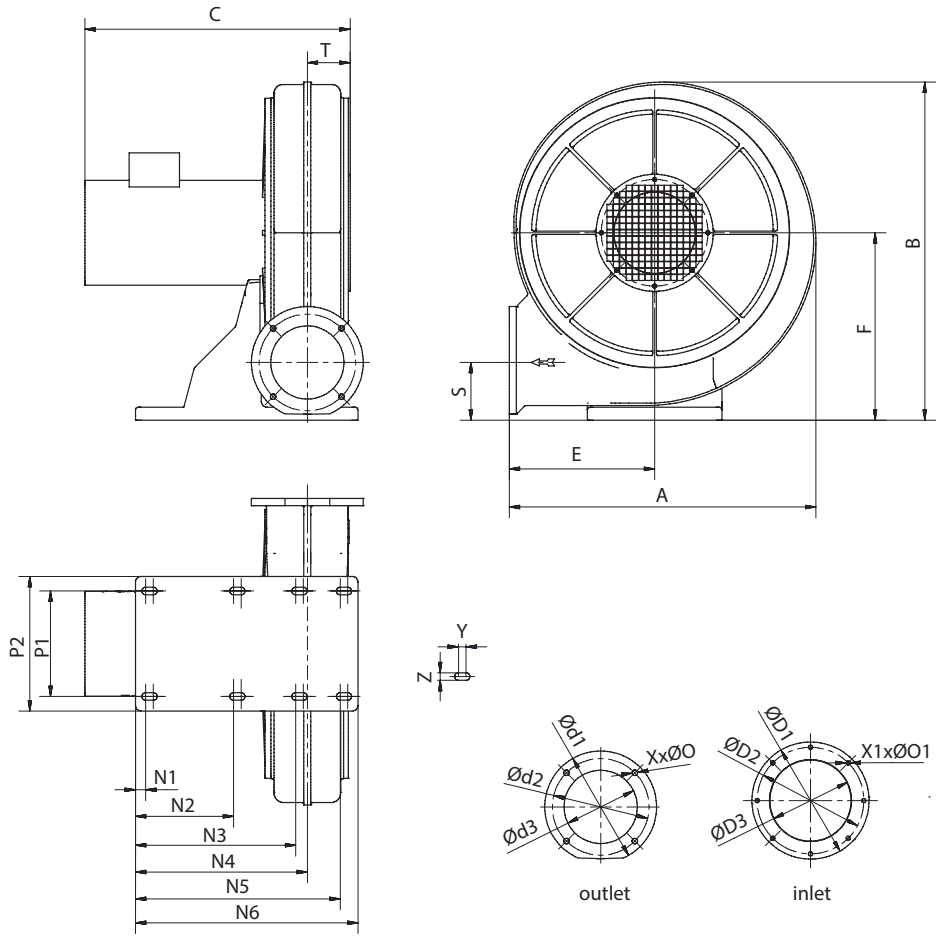


Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	ØO	ØO1	P1	P2	S	T	X	X1	Y	Z
MPA 160	506	595	476	250	220	170	200	168	125	220	342	15	166	250	291	12	12	180	210	127	107	4	4	20	13

* dimension C dependent on the used motor

DIMENSIONS [mm]

MPA 200

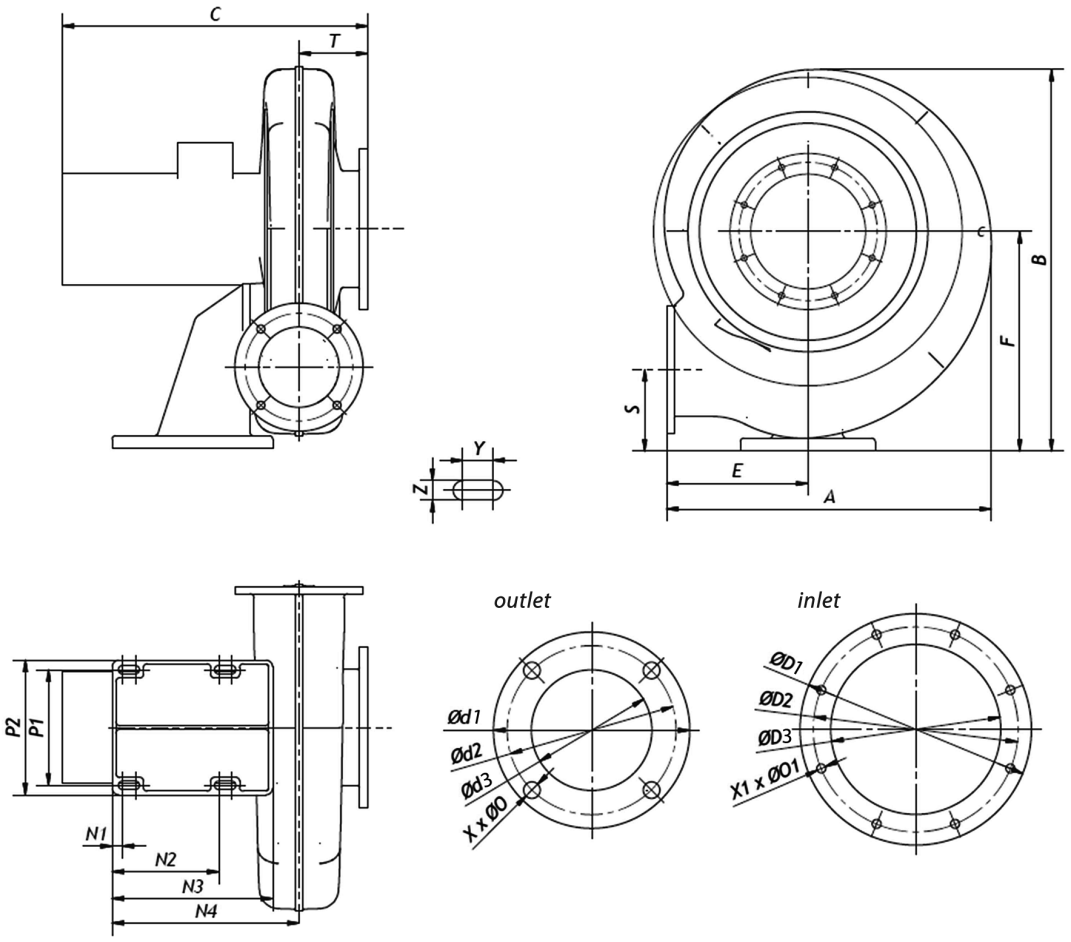


Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	N5	N6	Ø0	Ø01	P1	P2	S	T	X	X1	Y	Z
MPA 200	523	577	453	200	182	140	191	165	125	248	320	17,5	167,5	273,5	293,5	349,5	380	9,5	M6	180	230	98	73	4	8	13	13

* dimension C dependent on the used motor

DIMENSIONS [mm]

MPA 290

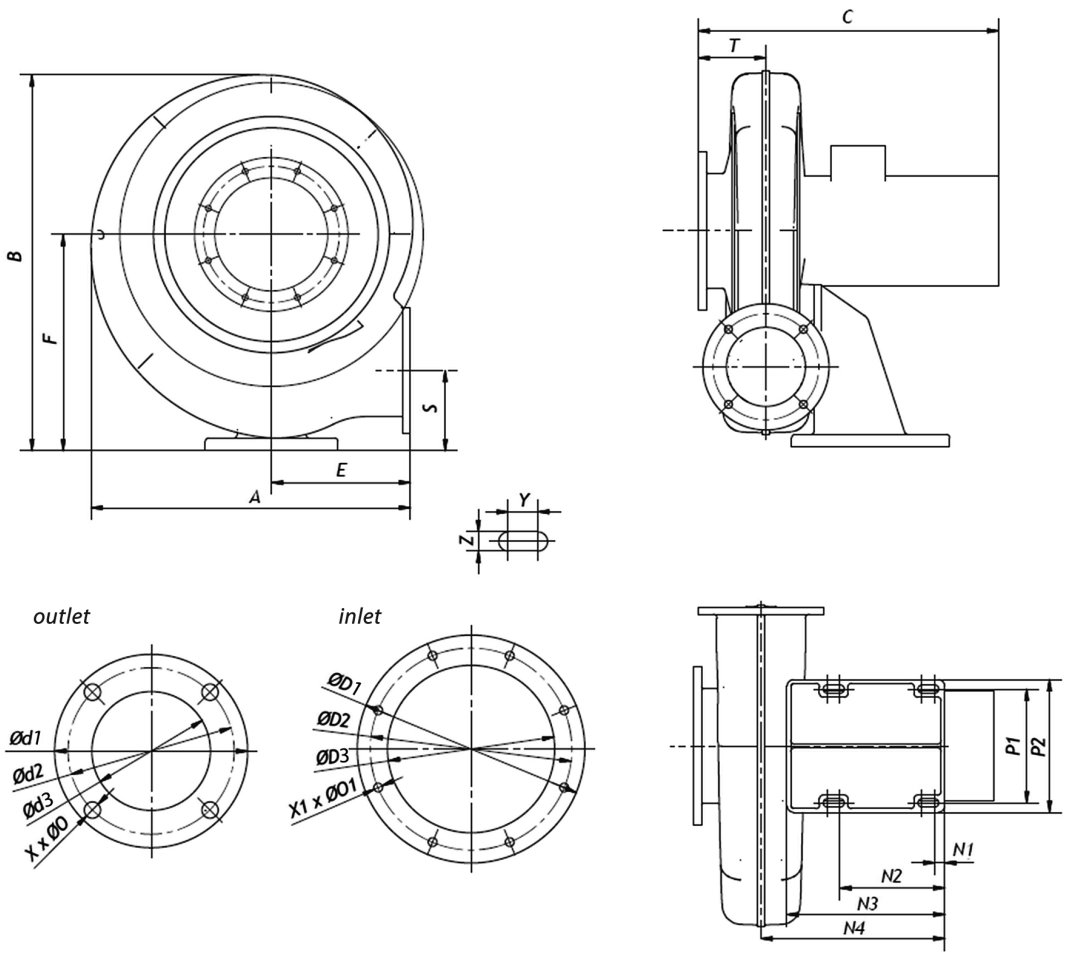


Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	ØO	ØO1	P1	P2	S	T	X	X1	Y	Z
MPA 290	617	708	523	245	217	180	260	230	179	280	410	16	166	250	295	13	9,5	180	215	170	133	4	8	20	13

* dimension C dependent on the used motor

DIMENSIONS [mm]

MPA 350

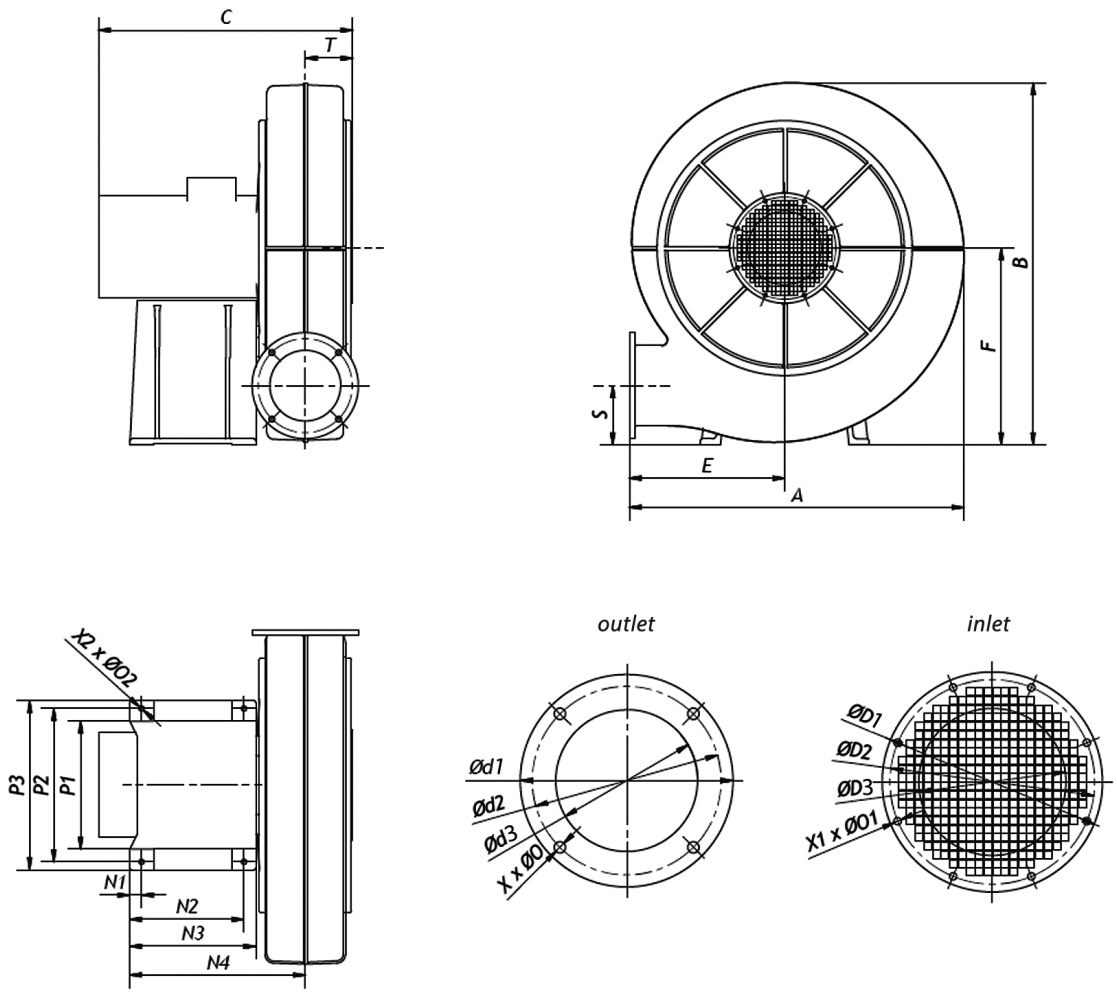


Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	ØO	ØO1	P1	P2	S	T	X	X1	Y	Z
MPA 350	617	708	555	245	217	180	260	230	170	280	410	16	166	250	295	13	9,5	180	215	170	133	4	8	20	13

* dimension C dependent on the used motor

DIMENSIONS [mm]

MPA 600 11kW

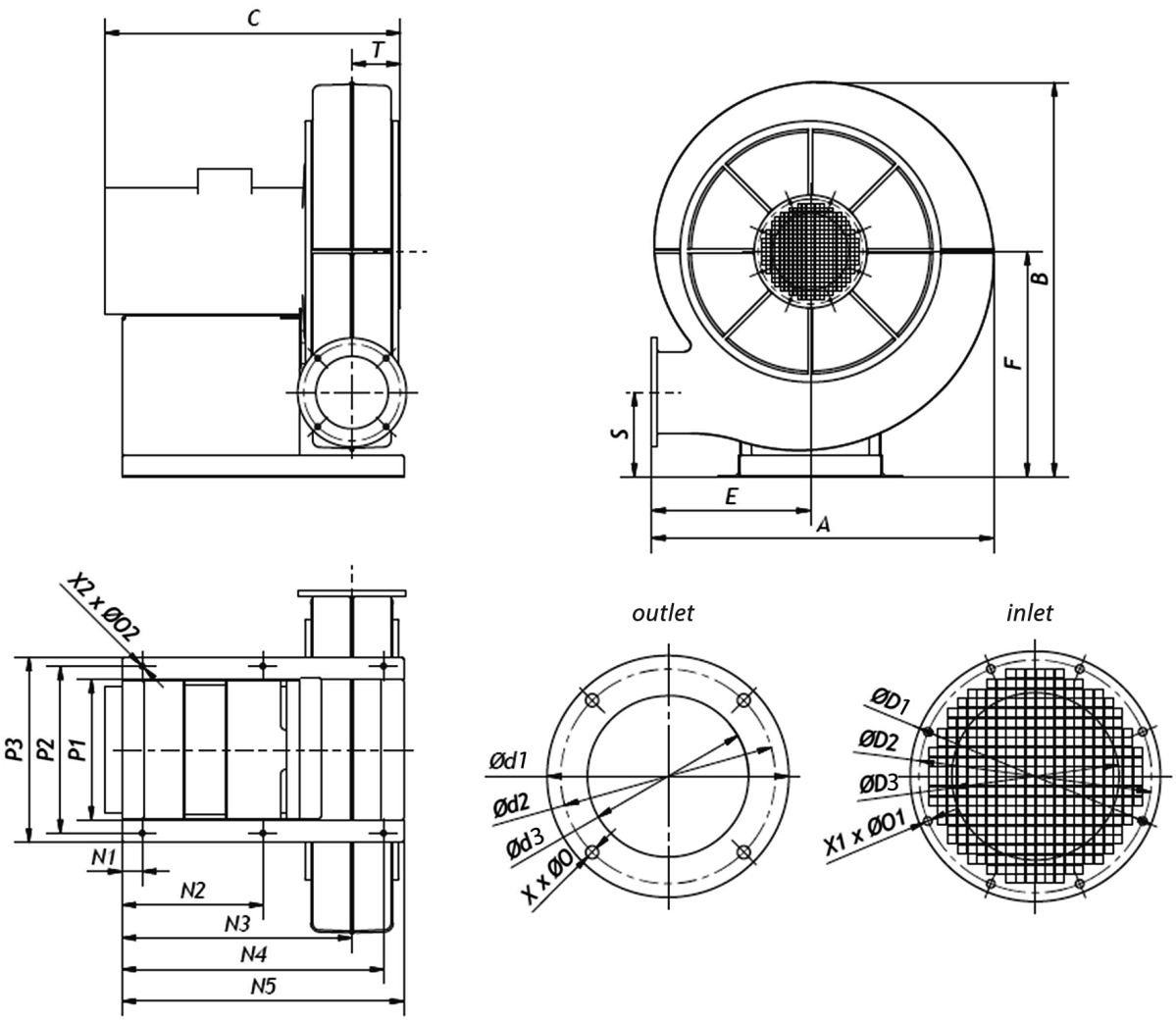


Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	Ø0	Ø01	Ø02	P1	P2	P3	S	T	X	X1	X2
MPA 600 11kW	850	920	678	280	260	212	270	240	180	395	500	30	290	320	476	14	9	13	326	390	430	150	117	4	8	4

* dimension C dependent on the used motor

DIMENSIONS [mm]

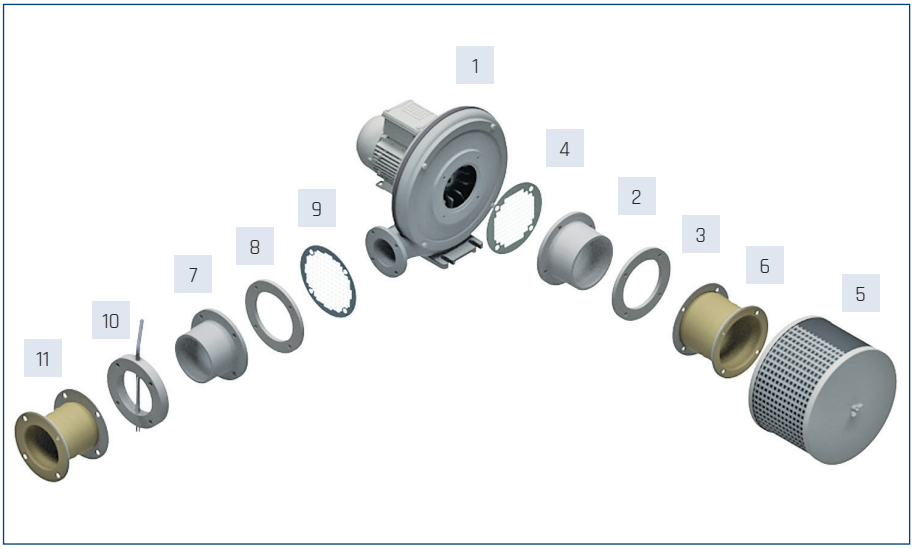
MPA 600 15kW



Type	A	B	C*	ØD1	ØD2	ØD3	Ød1	Ød2	Ød3	E	F	N1	N2	N3	N4	N5	Ø0	Ø01	Ø02	P1	P2	P3	S	T	X	X1	X2
MPA 600 15kW	850	914	734	280	260	212	270	240	180	395	560	50	350	571	650	700	14	9	14	350	415	460	210	121	4	8	6

* dimension C dependent on the used motor

ACCESSORY ASSEMBLY



Inlet					
1	2	3	4	5	6
Type	suction connection	welding collar	protective mesh	filter	anti-vibration connector
MPA 03	45510440	45515440	45510500	25511485-20	42519930
MPA 25	45510440	45515440	45510500	25511485-20	42519930
MPA 40	46515040	45515460	26510223	25511485-12	42519930
MPA 50	46515040	45515460	26510223	25511485-12	42519930
MPA 60	46515050	45515510	45510520	25511485-14	42519932
MPA 70	46515050	45515510	45510520	25511485-14	42519932
MPA 80	46515050	45515510	45510520	25511485-14	42519932
MPA 90	46515050	45515510	45510520	25511485-14	42519932
MPA 160	25510480	45515525	45510530	25511485-16	-
MPA 290	25510590	45515595	45510540	25511485-18	-
MPA 350	25510590	45516585	45510540	25511485-18	-
MPA 600	46515051	45516586	-	-	42519934

Outlet					
1	7	8	9	10	11
Type	outlet connection	welding collar	protective mesh	throttle	anti-vibration connector
MPA 03	45510450	45515450	45510550	-	-
MPA 25	45510450	45515450	45510550	-	-
MPA 40	45510465	45515465	45510560	-	-
MPA 50	45510465	45515465	45510560	-	-
MPA 60	46515040-01	45515500	26510224	-	42519937
MPA 70	46515040-01	45515500	26510224	-	42519937
MPA 80	45510470	45515470	45510570	45510415	42519936
MPA 90	45510470	45515470	45510570	45510415	42519936
MPA 160	25510485	45515520	45510580	-	-
MPA 290	25510595	45515590	45510590	-	-
MPA 350	25510595	45515590	45510590	-	-
MPA 600	46515069	45516585	-	-	42519938

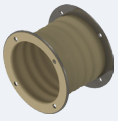
ELECTRICAL ACCESSORIES

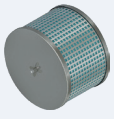
Type	inverter	service switch
MPA 03S	-	91040907-01
MPA 03T	Inverter 0,4kW	91040908-01
MPA 25S	-	91040907-01
MPA 25T	Inverter 0,4kW	91040908-01
MPA 40S	-	91040907-01
MPA 40T	Inverter 0,4kW	91040908-01
MPA 50S	-	91040907-01
MPA 50T	Inverter 0,75kW	91040908-01
MPA 60S	-	91040907-01
MPA 60T	Inverter 0,75kW	91040908-01
MPA 70S	-	91040907-01
MPA 70T	Inverter 0,75kW	91040908-01
MPA 80S	-	91040907-01
MPA 80T	Inverter 0,75kW	91040908-01
MPA 90S	-	91040907-01
MPA 90T	Inverter 1,5kW	91040908-01
MPA 160T	Inverter 2,2kW	91040908-01
MPA 200T	Inverter 2,2kW	91040908-01
MPA 290T	Inverter 4kW	91040908-01
MPA 350T	Inverter 5,5kW	91040908-01
MPA 600T 11kW	Inverter 11kW	91040908
MPA 600T 15kW	Inverter 15kW	91040908


inverter

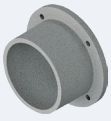

service switch


welding collar at the inlet

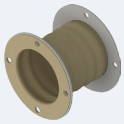

anti-vibration connector at the inlet


filter

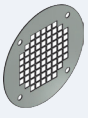

protective mesh at the inlet


suction connection


welding collar at the outlet


anti-vibration connector at the outlet


throttle


protective mesh at the outlet


outlet connection