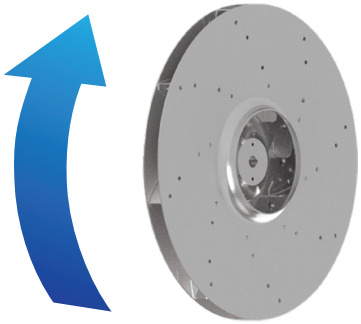


APPLICATION

Fan designed for transporting non-aggressive and non-explosive gases without contamination. Typical applications:

- pneumatic transport,
- blowing in drying systems (eg graphic machines and plastics processing),
- air blowing systems in combustion / heat treatment systems (eg melting furnaces).

CONSTRUCTION

- medium-pressure centrifugal fan with direct drive,
- riveted impeller made of aluminum sheet, with backward curved blades, (20 to 400 models), welded aluminum rotor (600 models), dynamically balanced according to ISO 1940-1,
- the housing is cast in aluminium alloy,
- galvanized inlet cover,
- fan painted grey RAL 7042,
- maximum temperature of the transported medium is 80°C,
- ambient temperature range from -20°C to + 40°C,
- figure LG270.

MOTOR

- asynchronous, single-phase, 230V, 50Hz (power to 1.5kW),
- asynchronous, three-phase, 230/400V, 50Hz (power to 3kW),
- asynchronous, three-phase, 400/690V, 50Hz (power 11.0kW),
- efficiency class IE3 (power from 0.25 kW) or IE2 (1,5 kW, 230V),
- degree of protection IP55,
- insulation class F,
- three-phase motors are adapted for frequency converter.

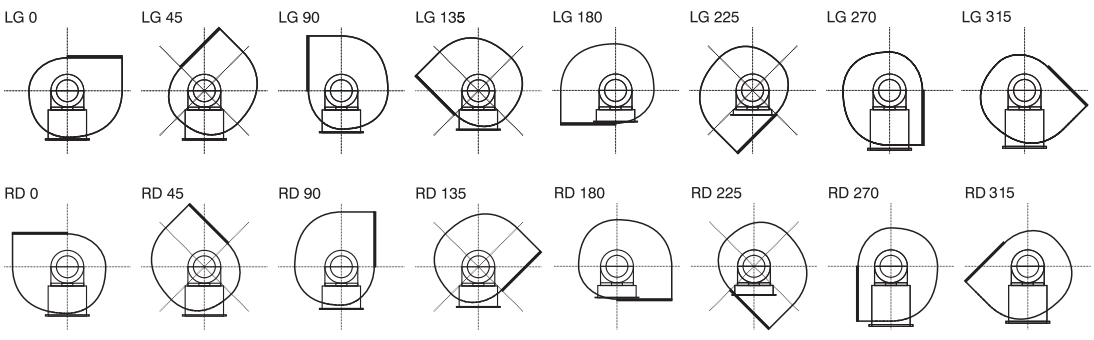
SPECIAL EXECUTIONS

- different position LG/RD,
- painting in a different color,
- impeller made of galvanized steel sheet,
- impeller made of stainless steel 1.4301,
- impeller made of acid-proof steel 1.4404,
- different motor voltage and frequency,
- single-phase motor driven by voltage,
- different motor degree of protection,
- motor equipped with sensor or additional cooling,
- ambient temperature range below -20°C and above +40°C.

ErP Ready

80°C

FIGURES



TECHNICAL CHARACTERISTICS

Typ	airflow max	pressure max	maximum absorbed power	speed	maximum absorbed current	voltage	capacitor	sound pressure level*	weight	ErP	article number
	[m³/h]	[Pa]	[kW]	[r.p.m.]	[A]	[V]	[µF]	[dB(A)]	[kg]		
MBA 30T	750	1250	0,25	2790	1,1/0,65	230/400	-	70	12	2015	436510202
MBA 40S	560	1880	0,37	2880	2,2	230	25	73	17	2015	436510208
MBA 40T	660	1820	0,37	2870	0,95	230/400	-	73	17	2015	436510206
MBA 75S	720	2400	0,55	2870	3,1	230	35	75	22	2015	436510215
MBA 75T	795	2490	0,55	2870	2,15/1,25	230/400	-	75	22	2015	436510210
MBA 110S	1040	2470	0,75	2880	4,2	230	50	78	24	2015	436510225
MBA 110T	1140	2490	0,75	2890	2,95/1,7	230/400	-	78	23	2015	436510220
MBA 220T	2315	3230	1,5	2880	5,25/3	230/400	-	79	52	2015	436510230
MBA 300S	2090	3320	1,5	2740	9,1	230	40	79	42	2015	436510245
MBA 300T	1460	3380	1,5	2880	5,25/3	230/400	-	79	43	2015	436510240
MBA 400T	3490	3860	3	2880	9,3/5,3	230/400	-	84	61	2015	436510260
MBA 600T 7,5kW	3840	6485	7,5	2895	14,0	400/690	-	86	133	2015	436510276
MBA 600T 11kW	5700	6485	11	2900	19,1	400/690	-	86	142	2015	436510278

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

PERFORMANCE CURVES

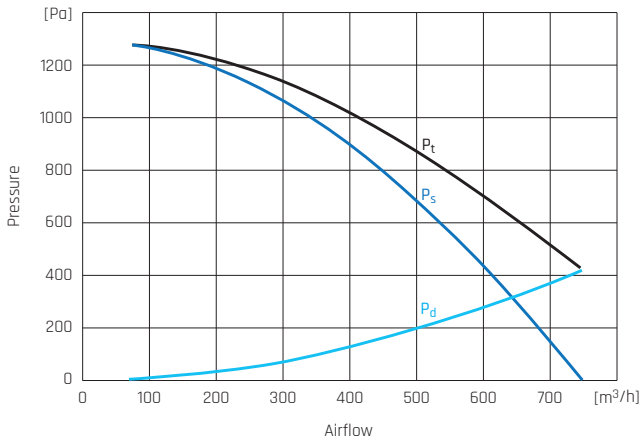
- p_t - total pressure
- p_s - static pressure
- p_d - dynamic pressure

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/total
[RPM]	Speed

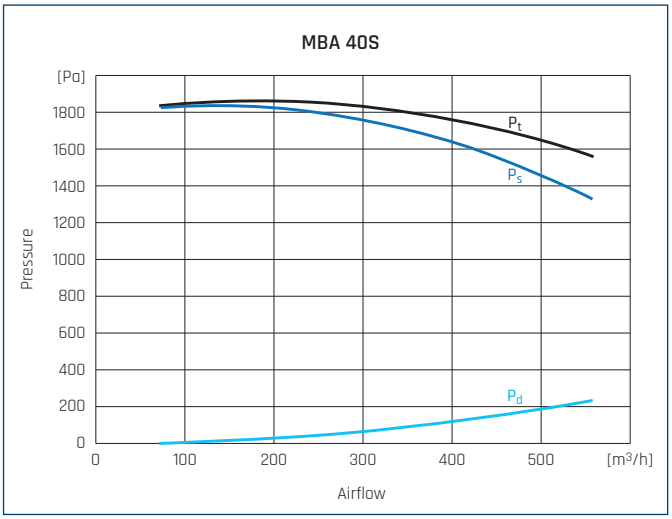
Based on Commission Regulation (UE) No. 327/2011 of March 30, 2011.

MBA 30T



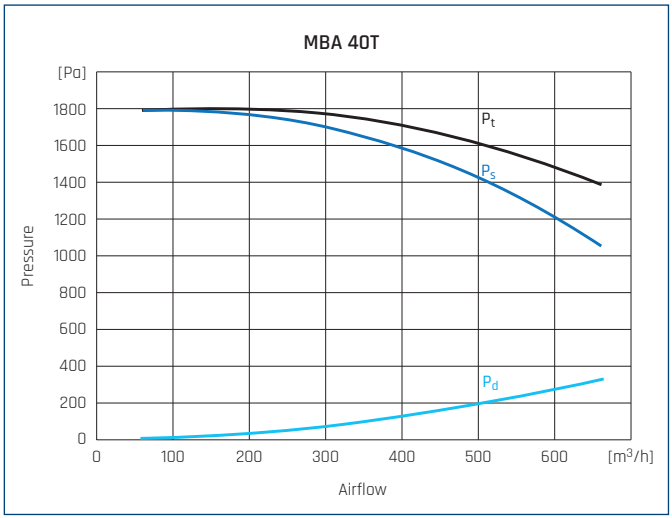
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	44,1	61,2	0,24	365	1031	2796

MBA 40S



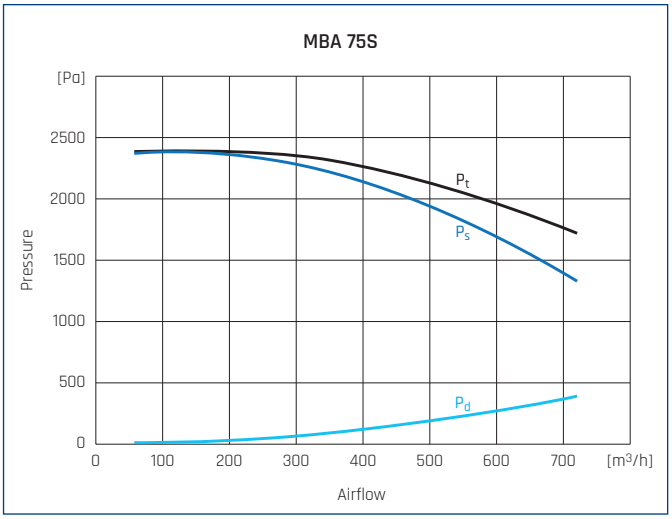
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	50,5	64,7	0,4	486	1668	2880

MBA 40T

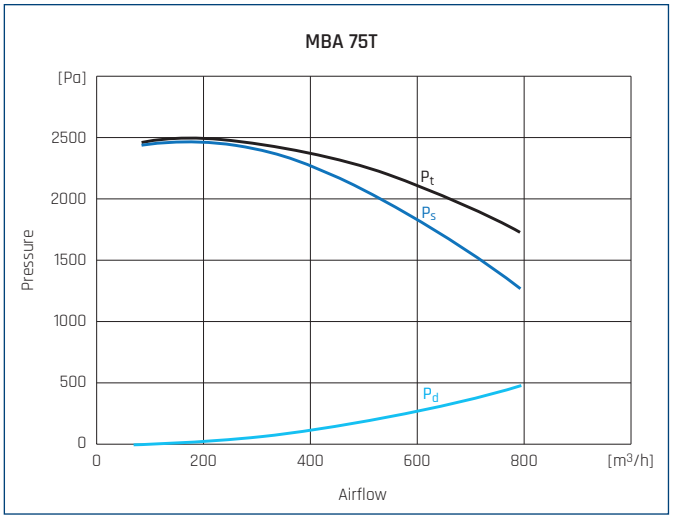


MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	51,2	65,4	0,4	527	1570	2870

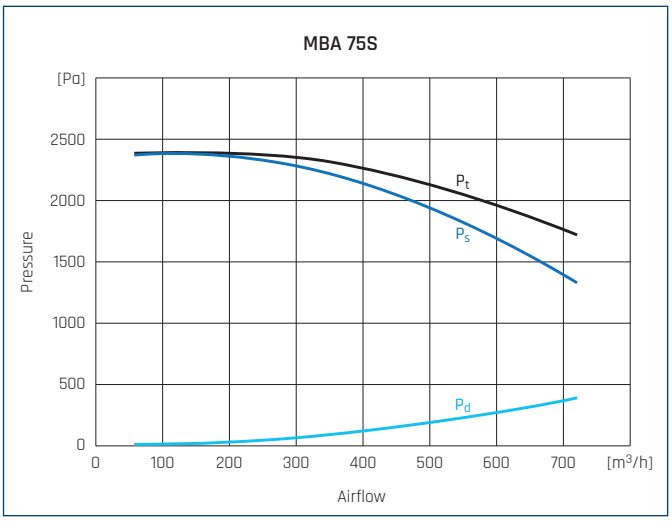
PERFORMANCE CURVES



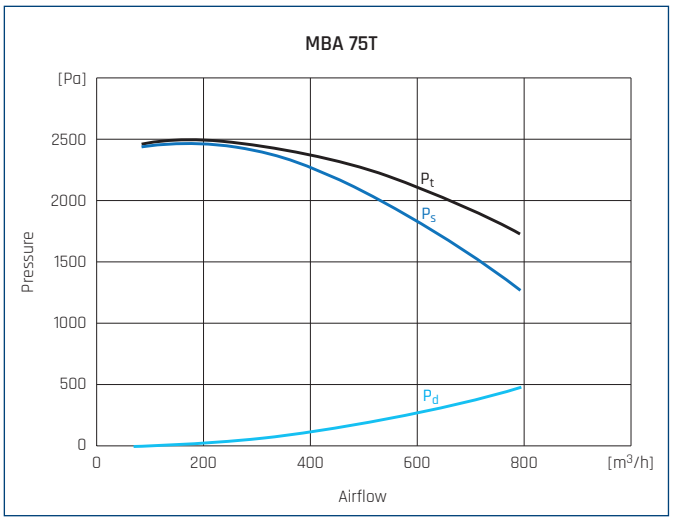
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	51,8	64,7	0,60	540	2069	2870



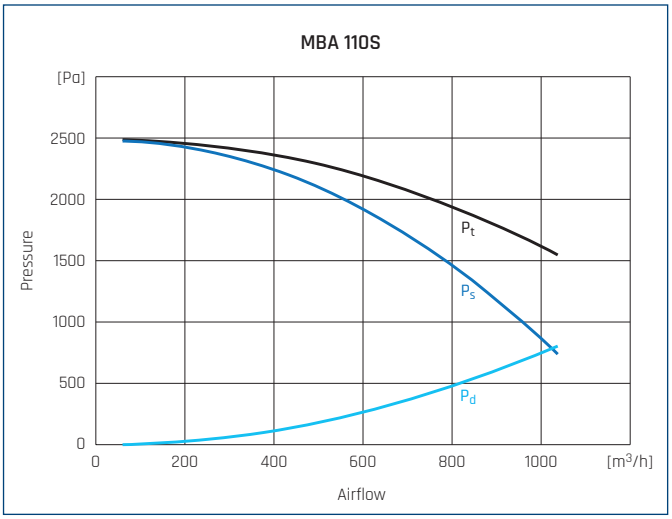
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	54,5	67,2	0,6	583	2126	2870



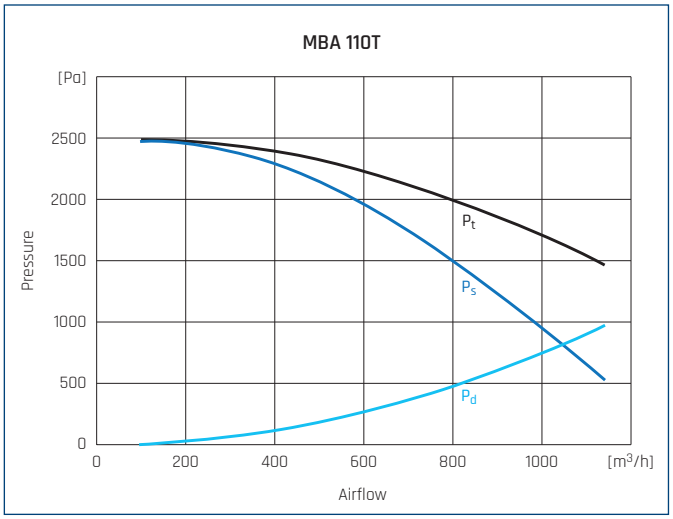
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	51,8	64,7	0,60	540	2069	2870



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	54,5	67,2	0,6	583	2126	2870



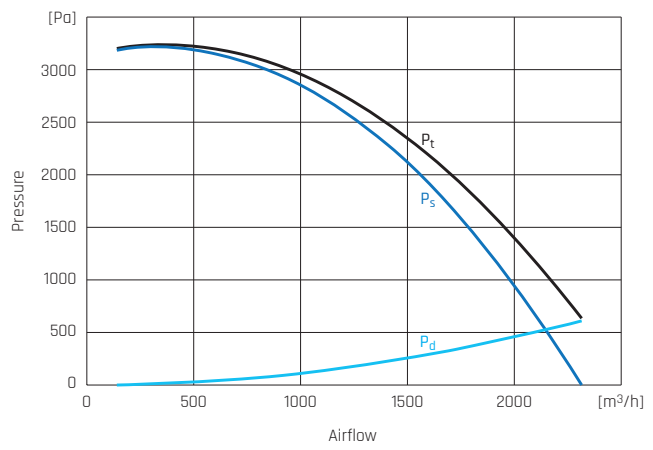
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	53,7	65,7	0,73	671	2116	2921



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	56,7	68,5	0,75	762	2035	2923

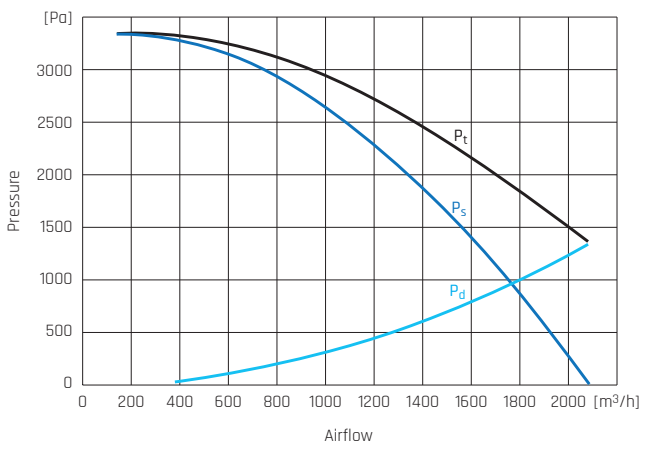
PERFORMANCE CURVES

MBA 220T



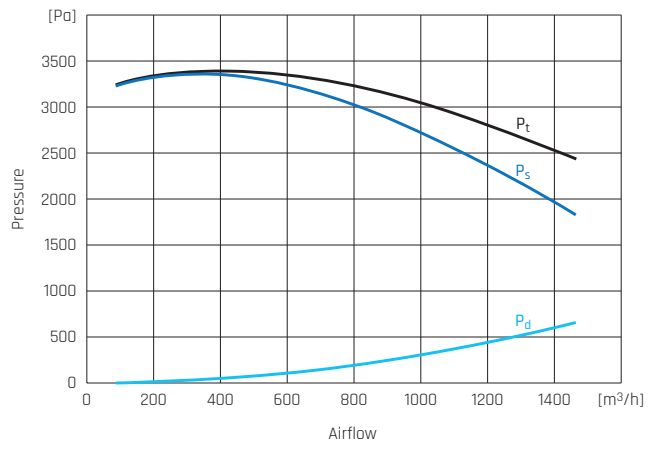
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	62,0	70,7	1,50	1283	2642	2903

MBA 300S



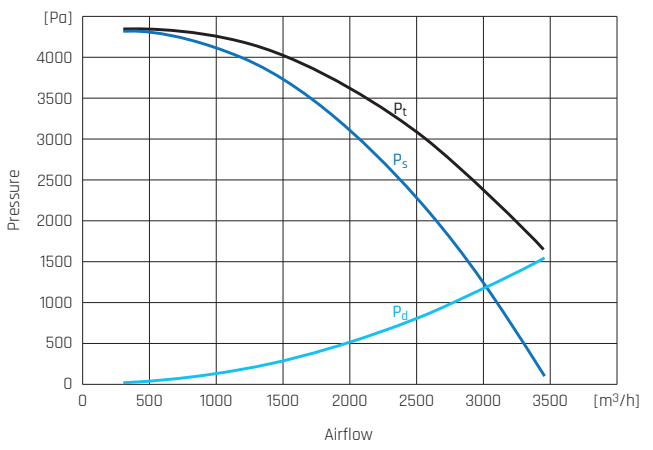
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	55,1	64,6	1,23	847	2878	2750

MBA 300T



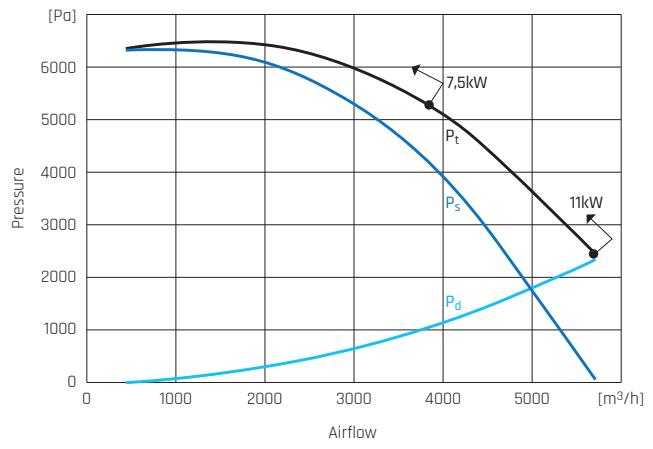
MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	58,9	67,6	1,48	1081	2937	2912

MBA 400T



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	66,6%	72,7	2,65	1976	3244	2911

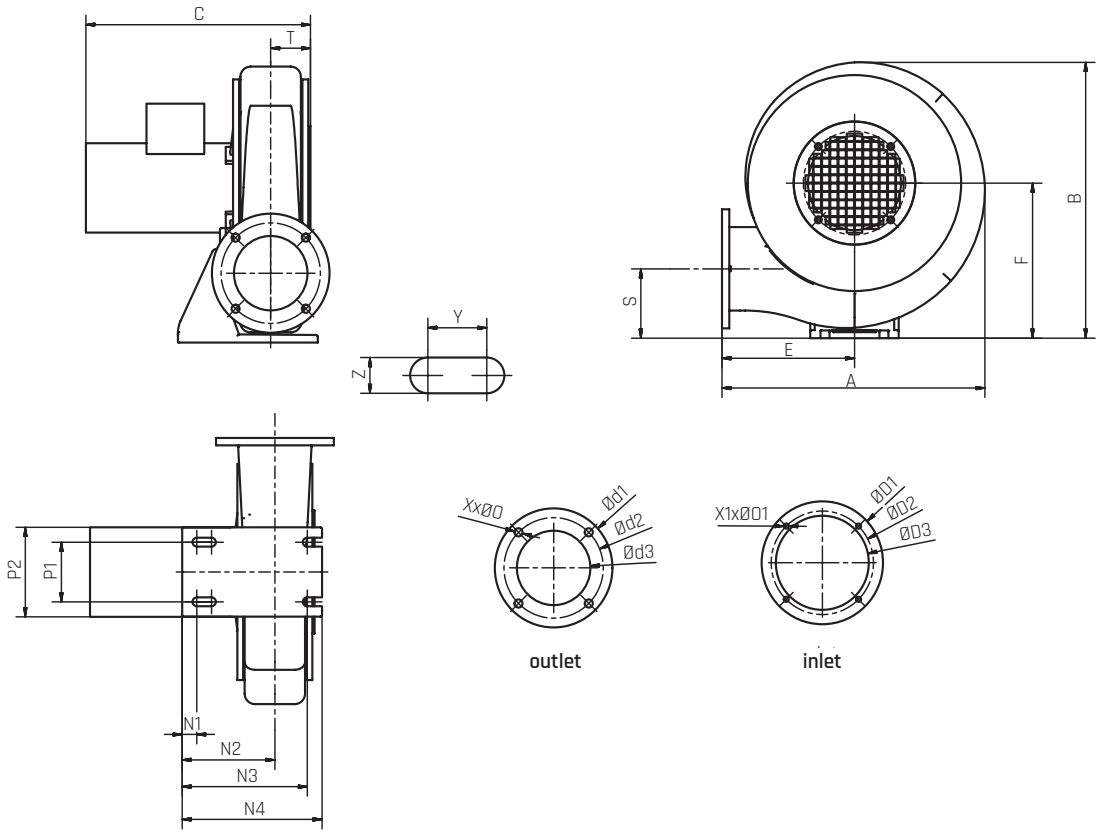
MBA 600T



MC	EC	VSD	SR	η[%]	N	[kW]	[m³/h]	[Pa]	[RPM]
B	Total	No	1	70,0	70,4	7,33	3190	5857	2900

DIMENSIONS [mm]

MBA 30 - 110

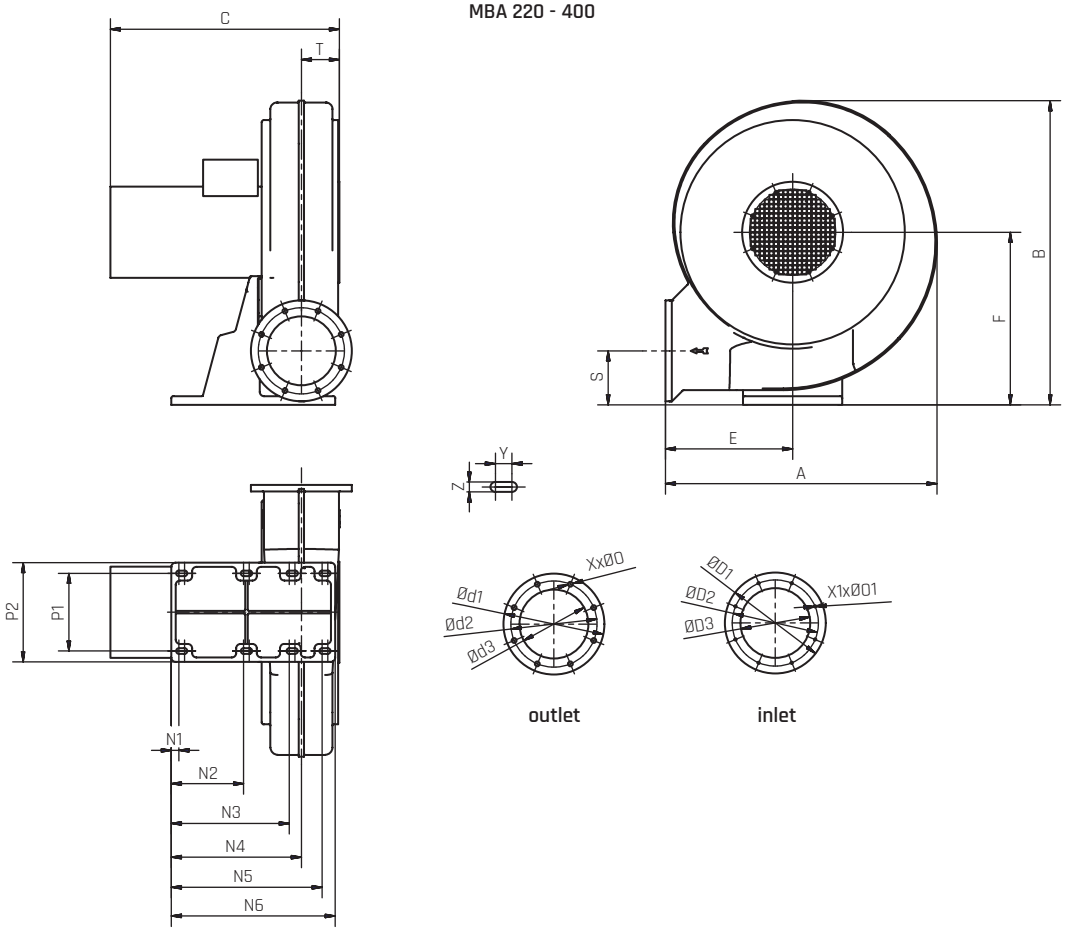


Type	A	B	C*	Ød1	Ød2	Ød3	ØD1	ØD2	ØD3	E	F	N1	N2	N3	N4	Ø0	Ø01	P1	P2	S	T	Z	X	X1	Y
MBA 30	357	370	305	160	135	100	165	139	126	180	208	20	126	170	190	11	M8	80	120	93	54	12	4	4	20
MBA 40	405	444	337	165	139	100	200	165	150	200	245	20	127	170	190	9,5	M8	80	120	85	60	12	4	4	20
MBA 75	451	515	364	165	139	100	165	139	126	210	290	46,5	156	215	240	9,5	M8	140	200	91	58	13	4	4	17
MBA 110	451	515	364	165	139	100	200	182	162	210	290	46,5	156	215	240	9,5	M8	140	200	91	59	13	4	4	17

* Dimension C depends on the hydraulic motor selected.

DIMENSIONS [mm]

MBA 220 - 400

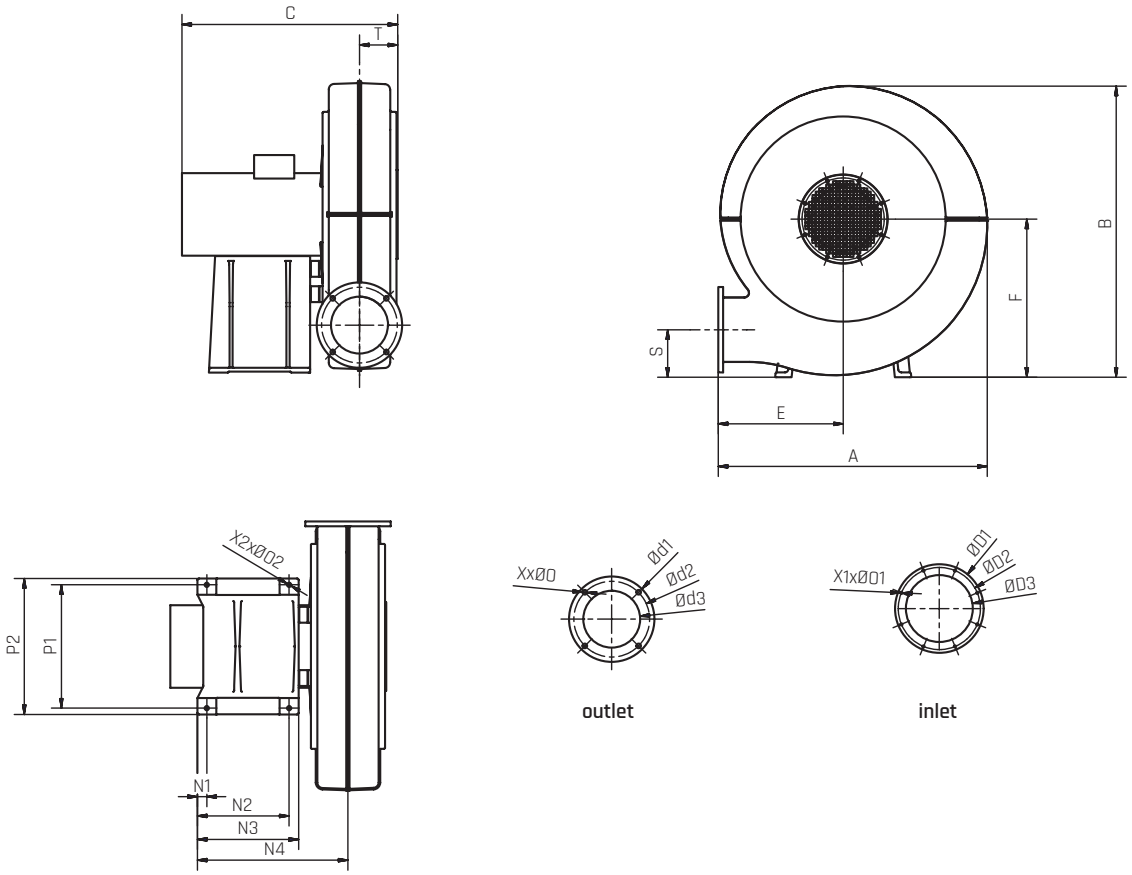


Type	A	B	C*	Ød1	Ød2	Ød3	ØD1	ØD2	ØD3	E	F	N1	N2	N3	N4	N5	N6	Ø0	Ø01	P1	P2	S	T	Z	X	X1	Y
MBA 220	570	650	455	230	200	160	200	182	162	270	368	17,5	167,5	273,5	297	349,5	380	9,5	M8	180	230	135	87	13	4	4	13
MBA 300	523	577	420	184	165	125	200	182	140	248	320	17,5	167,5	273,5	297	349,5	380	9,5	M6	180	230	98	72	13	4	8	13
MBA 400	630	705	532	234	200	160	234	200	162	295	400	17,5	167,5	273,5	301,5	349,5	380	11,5	M6	180	230	125	88	13	8	8	13

* Dimension C depends on the hydraulic motor selected.

DIMENSIONS [mm]

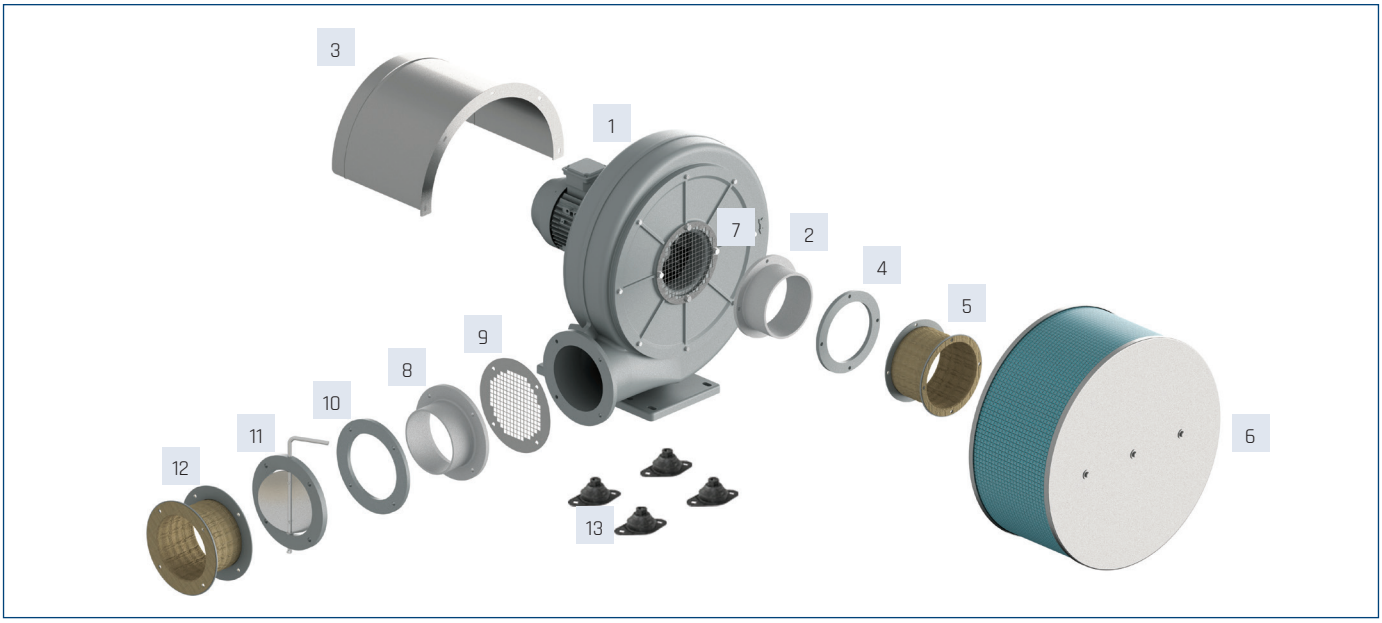
MBA 600



Type	A	B	C*	Ød1	Ød2	Ød3	ØD1	ØD2	ØD3	E	F	N1	N2	N3	N4	O	ØO1	ØO2	P1	P2	S	T	X	X1	X2
MBA 600	850	920	682	270	240	180	280	260	212	395	500	30	290	320	476	14	M8	13	390	430	150	120	4	8	4

* Dimension C depends on the hydraulic motor selected.

ACCESSORY ASSEMBLY



Inlet						
1	2	3	4	5	6	7
Type	Suction connection	Motor cover	Welding collar	Anti-vibration connector	Filter	Protective mesh
MBA 20	45510440-04	Brak	45515460	42519930	25511485-22	26510223
MBA 30	45510440-04	25511591	45515460	42519930	25511485-22	26510223
MBA 40	46515053	25511592	25511305	42519930-01	25511485-24	26510223-05
MBA 75	46515040	25511593	45515460	42519930	25511485	26510223
MBA 110	46515050	25511593	45515510	42519931	25511486-10	25511384
MBA 220	46515050	25511594	45515510	42519931	25511486-12	25511693
MBA 300	46515050	25511595	45515510	42519932	25511486-14	25511508
MBA 350	46515050	25511595	45515510	42519932	25511486-14	25511508
MBA 400	46515052	25511596	45516588	42519933	25511486-16	25511528
MBA 600	46515051	25511597	45516586	42519934	25511486-18	25511547

Outlet						
1	8	9	10	11	12	13
Type	Outlet connection	Protective mesh	Welding collar	Throttle	Anti-vibration connector	Anti-vibration mount
MBA 20	45510450	45510550	45515450	25511302	42519935	26040960
MBA 30	45510470	45510570	45516578	45510415	42519936	26040960
MBA 40	46515040-01	26510224	45515500	25511314	42519937	26040960
MBA 75	46515040-01	26510224	45515500	25511314	42519937	26040960
MBA 110	46515040-01	26510224	45515500	25511314	42519937	26040960
MBA 220	46515065-01	26510173	45516587	25511348	42519939	26040965
MBA 300	46515060-10	25511503	45516580	25511347	42519940	26040965
MBA 350	46515060-10	25511503	45516580	25511347	42519940	26040965
MBA 400	46515065-01	26510173	45516587	25511348	42519941	26040965
MBA 600	46515065-13	26510179	45516585	25511356	42519938	26040970

welding collar - inlet | anti-vibration connector - inlet | filter | protective mesh - inlet | suction connection | motor cover | welding collar - outlet | anti-vibration connector - outlet | throttle | protective mesh - outlet | outlet connection

anti-vibration mount

ELECTRICAL ACCESSORIES

Type	inverter	service switch
MBA 30T	L 0.4kW	R-S 3-F + SP, 10A
MBA 40S	-	R-S 1-F + SP, 16A
MBA 40T	L 0.4kW	R-S 3-F + SP, 10A
MBA 75S	-	R-S 1-F + SP, 16A
MBA 75T	L 0.75kW	R-S 3-F + SP, 10A
MBA 110S	-	R-S 1-F + SP, 16A
MBA 110T	L 0.75kW	R-S 3-F + SP, 10A
MBA 220T	L 1.5kW	R-S 3-F + SP, 10A
MBA 300S	-	R-S 1-F + SP, 16A
MBA 300T	L 1.5kW	R-S 3-F + SP, 10A
MBA 400T	L 4.0kW	R-S 3-F + SP, 10A
MBA 600T 7,5kW	L 7,5kW	R-S 3-F + SP, 16A
MBA 600T 11kW	L 11.0kW	R-S 3-F + SP, 25A

inverter

service switch

Article number

L 0.4kW	40016302	**L 1.5kW**	40016322	**L 4.0kW**	40016352	**R-S 3-F + SP, 10A**	91040908-01	**R-S 1-F + SP, 16A**	91040907-02
L 0.75kW	40016312	**L 2.2kW**	40016332	**L 7,5kW**	40016372	**R-S 3-F + SP, 16A**	91040908	**R-S 1-F + SP, 25A**	91040910
L 11.0kW	40016382					**R-S 3-F + SP, 25A**	91040910		