

Centrifugal fans type MB

Single inlet centrifugal fan

Application

- **MB** blowers are used for applications where slightly dusty air has to be removed.
- The fan is suitable for handling air up to 80°C.
- A protection hood is required for outside use.

Composition

- The casing is made of spot welded sheet steel and painted in epoxy RAL 7031 with a total thickness of 80µ. The strong base frame support the motor
- The impeller with forward curved blades is dynamically and statically balanced grade G6.3 according to ISO 1940/1. The many concave blades (30 or more) gives a great air volume at low speed which is benefit to a low noise level.
- Totally closed squirrel-cage asynchronous motor
- Protection IP55 – Insulation F
- Supply: 230Vac 1ph 50Hz (Steinmetz type) - 230/400Vac 3ph 50Hz and 400/690Vac from 5.5kW motors

Accessories

- Inlet flange, type **RNFLA**
- Outlet guard, type **RDP**
- Square/round piece on outlet, type **RC**
- 5-steps transformer speed controller 230V, type **TSCTK-1**
- 5-steps transformer speed controller 3x400v, type **TSCTK-4**
- Frequency converter 1x230V, type **FIS(-C)-11-B**
- Frequency converter 3x400V, type **FIS(-C)-44-B**

Options

- ATEX II 2G T3 version
- High temperature 180°C version
- 2-speed motors
- Stainless steel version
- Belt driven version

Order example

MB253/400V

MB253 = fan

400V = supply 3ph

BTRN = speed controller

RNFL = inlet flange

RDP = outlet guard

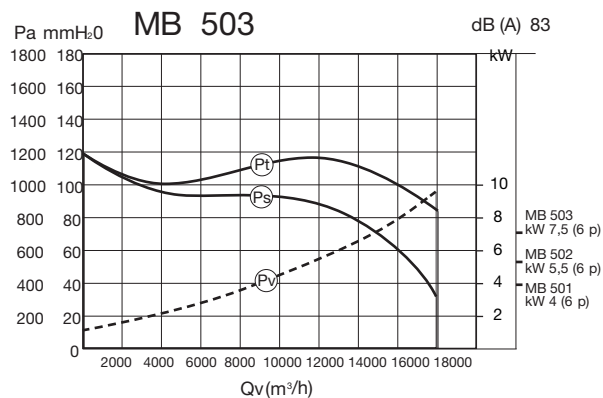
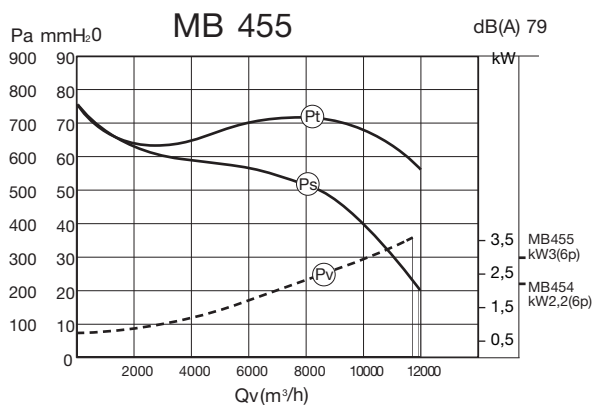
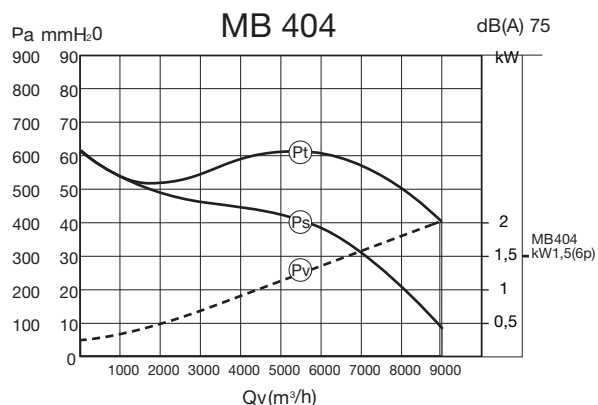
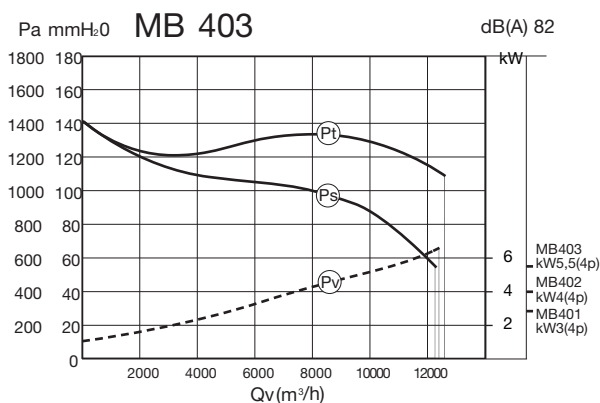
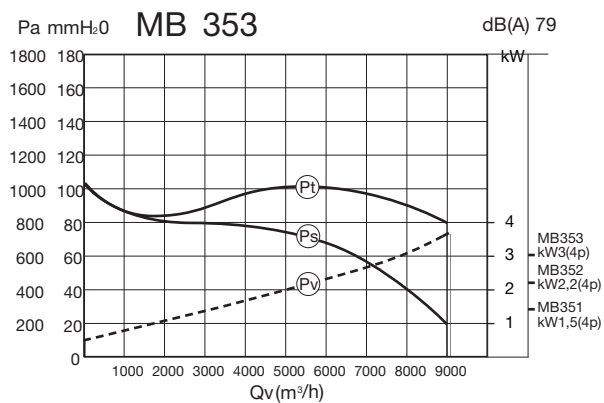
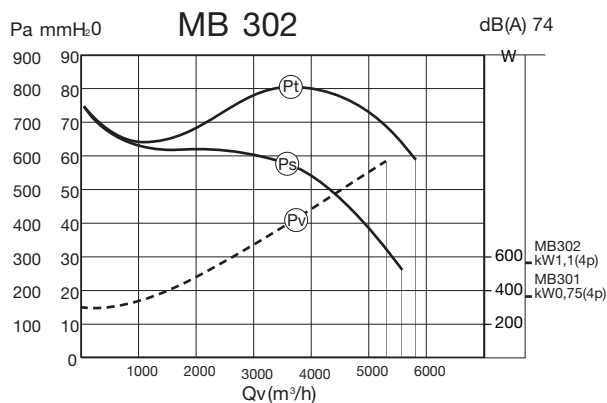
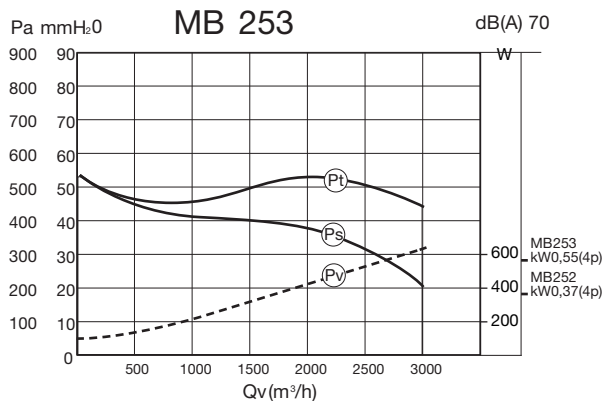
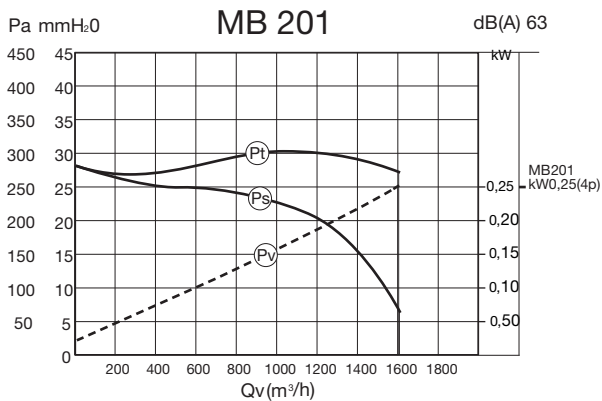
Square/round piece

Air performance data							
	Q [m ³ /h]						
	200Pa	300Pa	400Pa	500Pa	600Pa	750Pa	
MB 201	1200	-	-	-	-	-	-
MB 253	3000	2600	1500	-	-	-	-
MB 302	-	5300	4800	4200	3000	-	-
MB 353	9000	8500	8000	7500	6800	5000	-
MB 403	-	-	-	12500	12000	11000	-
MB 404	8000	7000	5700	1800	-	-	-
MB 455	12000	11250	10000	8200	3800	-	-
MB 503	-	18000	17500	17000	16000	14000	-

Attention

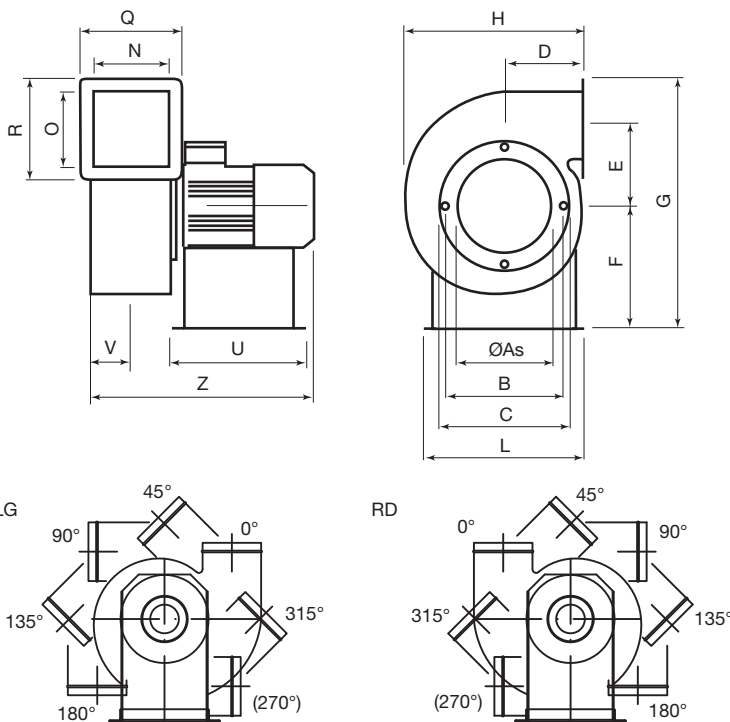
- The MB fan may never be used with free inlet. There should be a minimal counter-pressure as shown in the table above. Please measure the current at first startup.
- The motorspeed is not adjustable by means of an electronic controller.

Selection curves



Technical data						
	U [V]	P [kW]	I [A]	SC	n [rpm]	Lpa @ 1,5 m [dB(A)]
MB 201	1 x 230	0.25	2.32	TSCTK 1-30 / FIS-1120E-0.37-B	1380	63
MB 253	1 x 230	0.55	4.03	TSCTK 1-50 / FIS-1120E-0.75-B	1380	70
MB 302	1 x 230	1.10	7.27	TSCTK 1-110 / FIS-1120E-1.1-B	1380	74
MB 201	3 x 400	0.25	0.77	TSCTK 4-20 / FIS-4420E-0.75-B	1380	63
MB 253	3 x 400	0.55	1.44	TSCTK 4-20 / FIS-4420E-0.75-B	1380	70
MB 302	3 x 400	1.10	2.55	TSCTK 4-30 / FIS-4420E-1.5-B	1380	74
MB 353	3 x 400	3	6.40	TSCTK 4-70 / FIS-4420E-4.0-B	1410	79
MB 403	3 x 400	5.50	11.40	TSCTK 4-140 / FIS-4420E-5.5-B	1410	82
MB 404	3 x 400	1.50	3.90	TSCTK 4-40 / FIS-4420E-1.5-B	920	75
MB 455	3 x 400	3	7.20	TSCTK 4-110 / FIS-4420E-4.0-B	940	79
MB 503	3 x 400	7.50	17	FIS-4420E-7.5-B	950	83

- SC = Speed controller
- Lpa = Sound pressure level
- Sound pressure Lpa measured according to UNI EN10531



Attention

- In the orientation drawing, the motor is directed towards you. The desired orientation has to be specified upon order
- A protection hood is required for outdoor mounting

	Dimensions																
	Ø As	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	L [mm]	N [mm]	O [mm]	Q [mm]	R [mm]	U [mm]	V [mm]	Z [mm]	[kg]
MB 201	200	232	260	145	140	260	425	340	255	192	192	215	215	210	86	370	22
MB 253	250	282	310	175	180	320	525	420	255	232	232	255	255	250	106	410	26
MB 302	300	332	362	205	220	380	625	500	255	272	272	295	295	250	126	480	36
MB 353	350	382	412	235	260	445	735	580	320	318	318	345	345	305	146	555	60
MB 403/404	400	432	462	265	300	505	835	660	370	358	358	385	385	380	166	635	110
MB 455	450	482	515	295	340	565	935	740	420	400	400	425	425	440	188	740	190
MB 503	500	532	565	325	380	625	1040	820	440	440	440	465	465	440	210	825	200