

MB12/5-20/8



MEDIUM PRESSURE CENTRIFUGAL FAN WITH FORWARD IMPELLER

MANUFACTURING FEATURES:

- Rolling steel sheet housing.
- Completely joined or welded housing.
- Galvanised steel sheet simple inlet forward curved impeller.
- Epoxy powder finishing coat.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation. Manufactured with standard voltages: 230V 50Hz in single phase motors and 230/400V 50Hz in three phase motors.
- Standard position: LG 270.

APPLICATIONS:

Designed for inline installation, they are suitable for:

- Industrial applications, extraction or injection of air.
- Cooling of machines and parts.
- Clean air transport.
- Maximum working temperature: carried air: 130°C, ambient: 1ph 50°C, 3ph 60°C.

UNDER REQUEST:

- 60Hz and special voltages.
- 2 speed motors.
- Fan for air working temperatures up to 250°C.
- Fans provided with cooling disk for high temperature.
- Position: LG 0, LG 45, LG 90, LG 135, LG 180, LG 225, LG 315, RD 0, RD 45, RD 90, RD 135, RD 180, RD 225, RD 270, RD 315.

Accessories



AC



BAD



EI



FILTRO
EMC



INT



JE-45



RA



RBS



SFC

Technical data

Single-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)*	Weight	Connect. diagram
253100103	MB 14/5 M2 0,25kW	2800	1,87	0,25	830	58	7	1
253110103	MB 16/6 M2 0,37kW	2800	2,61	0,37	1.340	60	9,50	1
253170103	MB 18/7 M2 0,75kW	2800	4,93	0,75	1.940	63	15	1
253240103	MB 20/6 M2 0,37kW	2800	2,61	0,37	800	61	14	1
253190103	MB 20/8 M2 1,1kW	2820	7,45	1,10	2.240	65	19	1

Single-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)*	Weight	Connect. diagram
253080103	MB 12/5 M4 0,08kW	1370	0,9	0,08	240	46	5	1
253090103	MB 14/5 M4 0,08kW	1370	0,9	0,08	420	46	6	1
253150103	MB 16/6 M4 0,08kW	1370	0,9	0,08	710	53	7,50	1

Three-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)*	Weight	Connect. diagram
253100106	MB 14/5 T2 0,25kW	2800	0,65	0,25	830	58	7	2
253110106	MB 16/6 T2 0,37kW	2800	0,91	0,37	1.340	60	9,50	2
253170106	MB 18/7 T2 0,75kW	2800	1,58	0,75	1.940	63	15	2
253240106	MB 20/6 T2 0,37kW	2800	0,91	0,37	800	61	14	2
253190106	MB 20/8 T2 1,1kW	2800	2,33	1,10	2.240	65	19	2

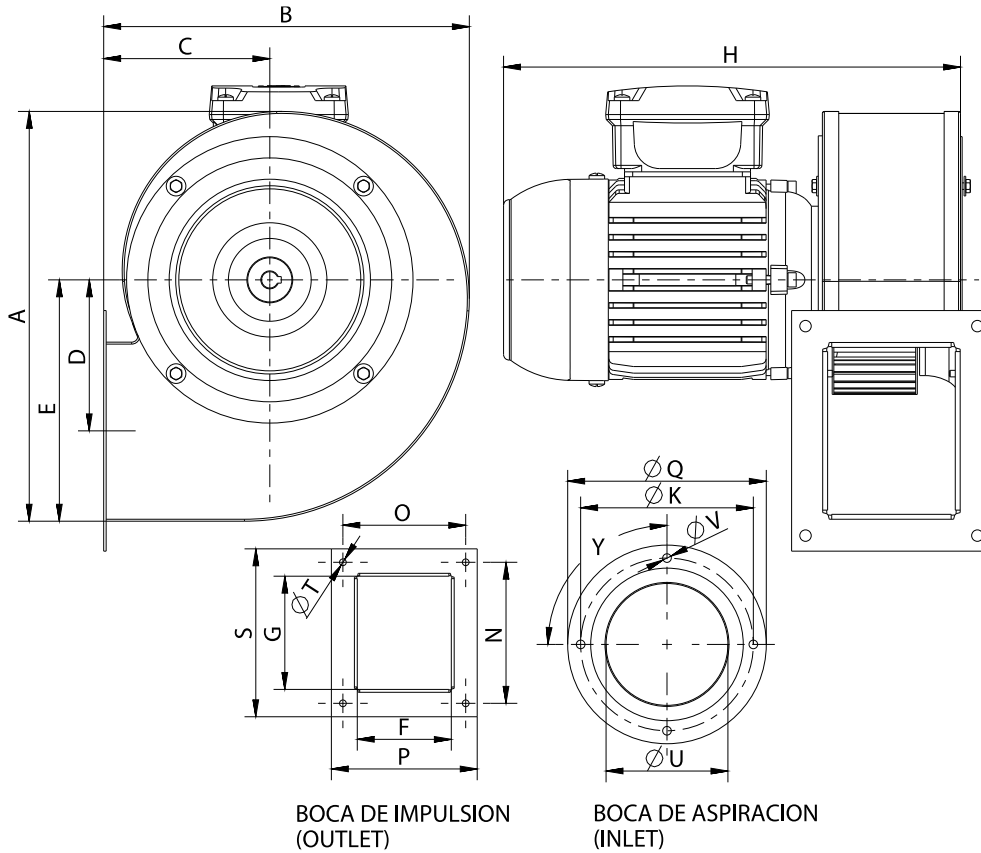
Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)*	Weight	Connect. diagram
253080106	MB 12/5 T4 0,08kW	1400	0,2	0,08	250	46	5	2
253090106	MB 14/5 T4 0,08kW	1400	0,2	0,08	420	46	6	2
253150106	MB 16/6 T4 0,08kW	1400	0,2	0,08	710	53	7,50	2

Notes:

* Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



Model	A	B	C	D	E	F	G	H	K
MB 12/5 M4 0,08kW	205,5	188	87	71,5	117	72	85	251	135
MB 12/5 T4 0,08kW	205,5	188	87	71,5	117	72	85	251	135
MB 14/5 M2 0,25kW	250,5	224	102	93	147,5	82	106	278	162
MB 14/5 M4 0,08kW	250,5	224	102	93	147,5	82	106	278	162
MB 14/5 T2 0,25kW	250,5	224	102	93	147,5	82	106	278	162
MB 14/5 T4 0,08kW	250,5	224	102	93	147,5	82	106	278	162
MB 16/6 M2 0,37kW	295	266	119	108	171,5	100	120	325	180
MB 16/6 M4 0,08kW	295	266	119	108	171,5	100	120	298	180
MB 16/6 T2 0,37kW	295	266	119	108	171,5	100	120	325	180
MB 16/6 T4 0,08kW	295	266	119	108	171,5	100	120	298	180
MB 18/7 M2 0,75kW	350	305	130	133	205	115	140	358	214
MB 18/7 T2 0,75kW	350	305	130	133	205	115	140	358	214
MB 20/6 M2 0,37kW	347	302	132	150	202	105	100	329	230
MB 20/6 T2 0,37kW	347	302	132	150	202	105	100	329	230
MB 20/8 M2 1,1kW	374	320	138	139	221	130	160	372	230
MB 20/8 T2 1,1kW	374	320	138	139	221	130	160	372	230

Model	N	O	P	Q	S	TØ	UØ	VØ	Y
MB 12/5 M4 0,08kW	105	93	106	150	118	7	92,5	7	4x90°
MB 12/5 T4 0,08kW	105	93	106	150	118	7	92,5	7	4x90°
MB 14/5 M2 0,25kW	128	105	123	175	147	7	115	7	4x90°
MB 14/5 M4 0,08kW	128	105	123	175	147	7	115	7	4x90°
MB 14/5 T2 0,25kW	128	105	123	175	147	7	115	7	4x90°
MB 14/5 T4 0,08kW	128	105	123	175	147	7	115	7	4x90°
MB 16/6 M2 0,37kW	147	128	152	207	172	7	127	9	4x90°
MB 16/6 M4 0,08kW	147	128	152	207	172	7	127	9	4x90°
MB 16/6 T2 0,37kW	147	128	152	207	172	7	127	9	4x90°
MB 16/6 T4 0,08kW	147	128	152	207	172	7	127	9	4x90°
MB 18/7 M2 0,75kW	169	146	169	237	192	8	143	9	4x90°
MB 18/7 T2 0,75kW	169	146	169	237	192	8	143	9	4x90°
MB 20/6 M2 0,37kW	128	134	159	255	153	8	161	9	8x45°
MB 20/6 T2 0,37kW	128	134	159	255	153	8	161	9	8x45°
MB 20/8 M2 1,1kW	189	160	184	255	213	8	161	9	8x45°
MB 20/8 T2 1,1kW	189	160	184	255	213	8	161	9	8x45°

Wiring diagram

DIAGRAM Nº 1

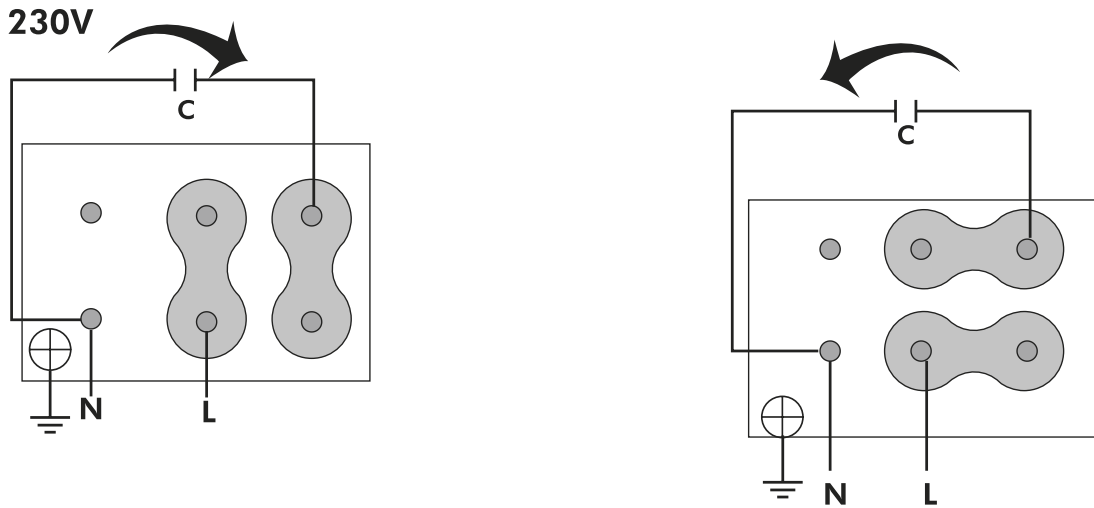
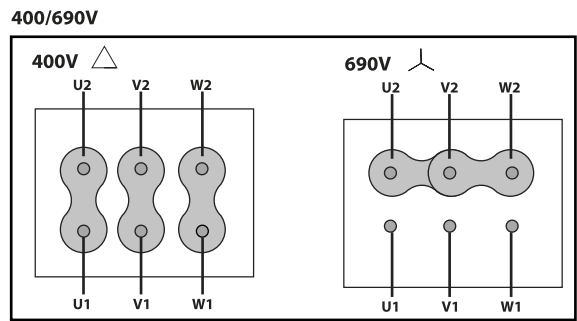
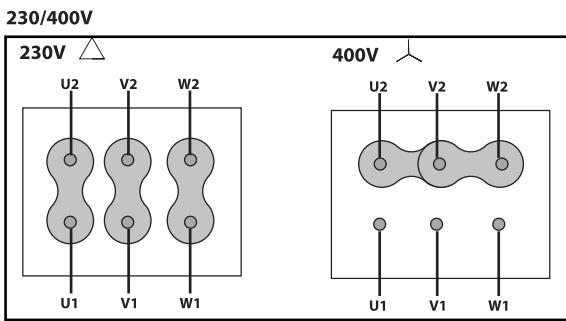


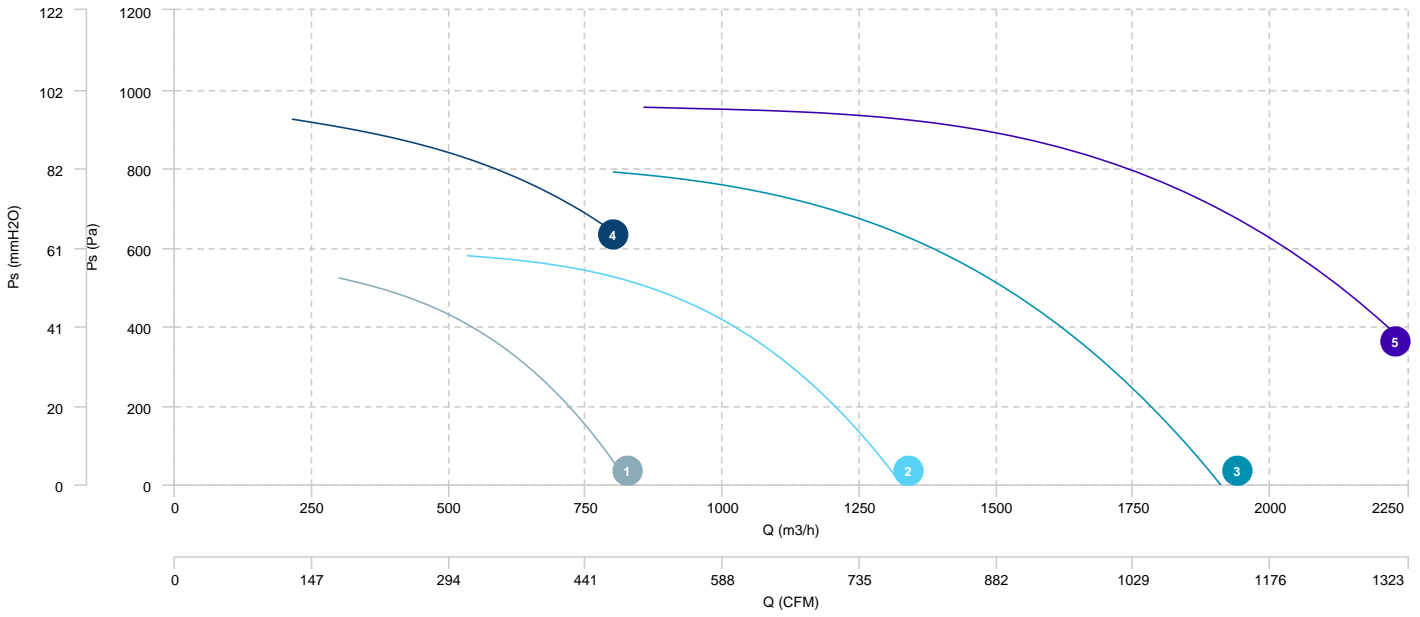
DIAGRAM Nº 2



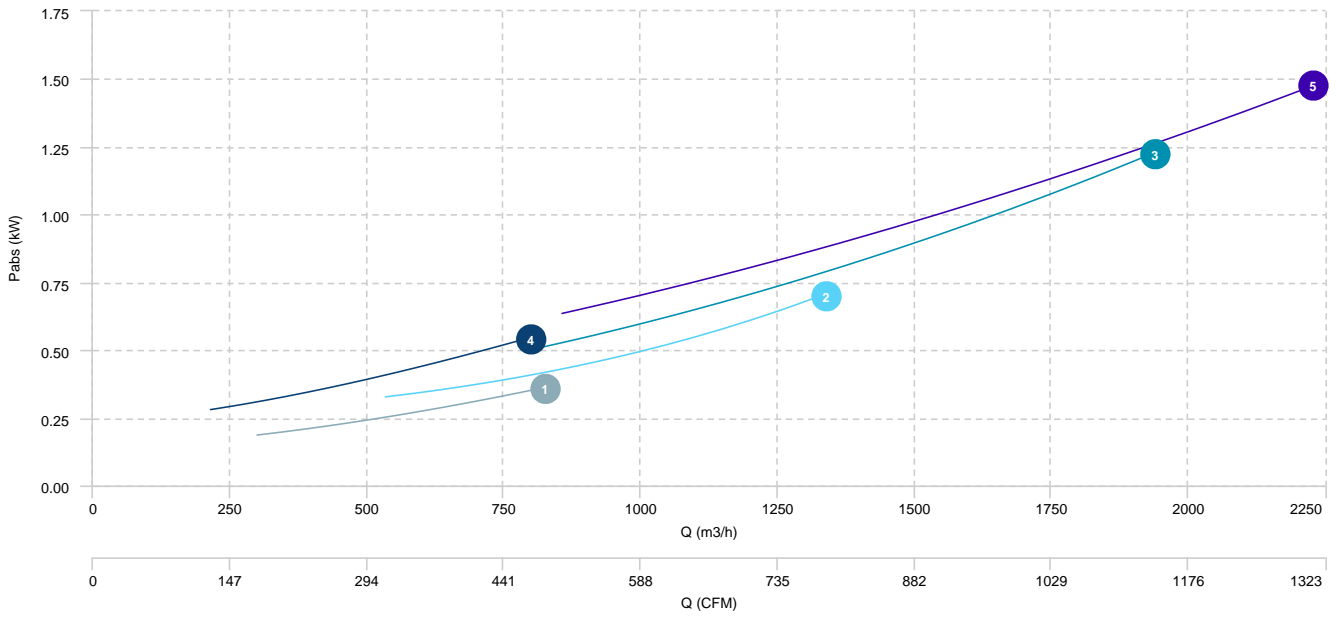
CHARACTERISTIC CURVE

- 1 MB 14/5 M2 0,25kW
- 2 MB 16/6 M2 0,37kW
- 3 MB 18/7 M2 0,75kW
- 4 MB 20/6 M2 0,37kW
- 5 MB 20/8 M2 1,1kW

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER

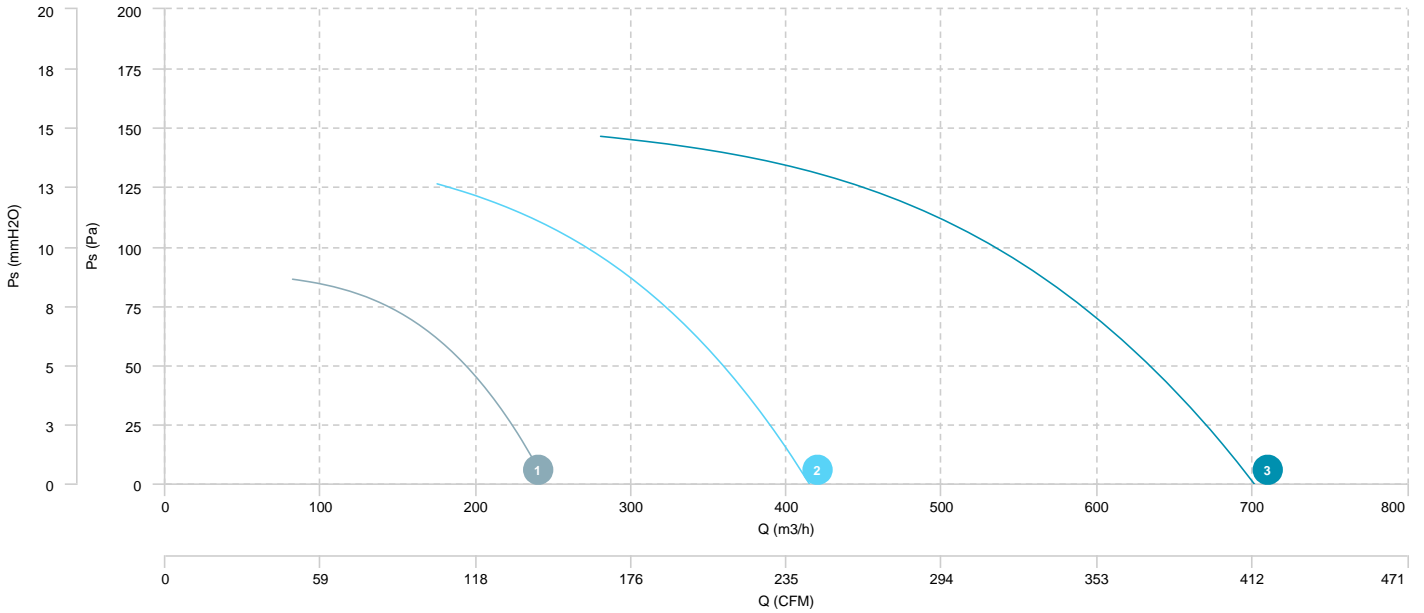


1 MB 12/5 M4 0,08kW

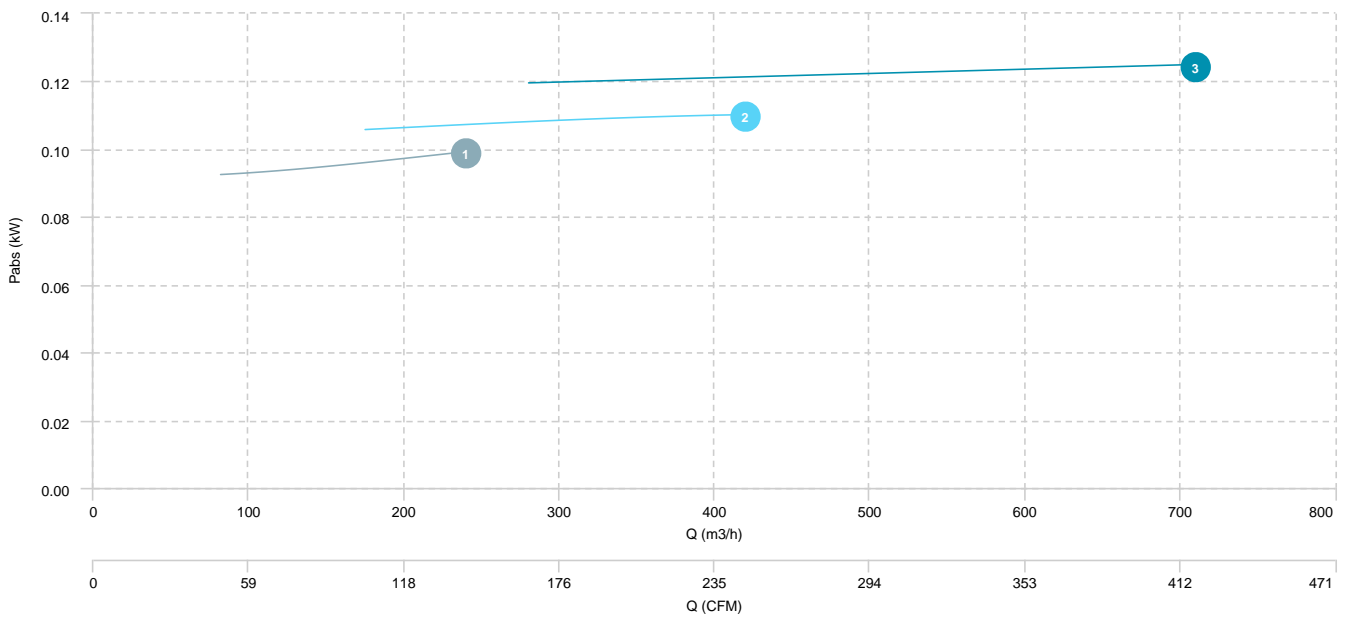
2 MB 14/5 M4 0,08kW

3 MB 16/6 M4 0,08kW

AIR FLOW - PRESSURE

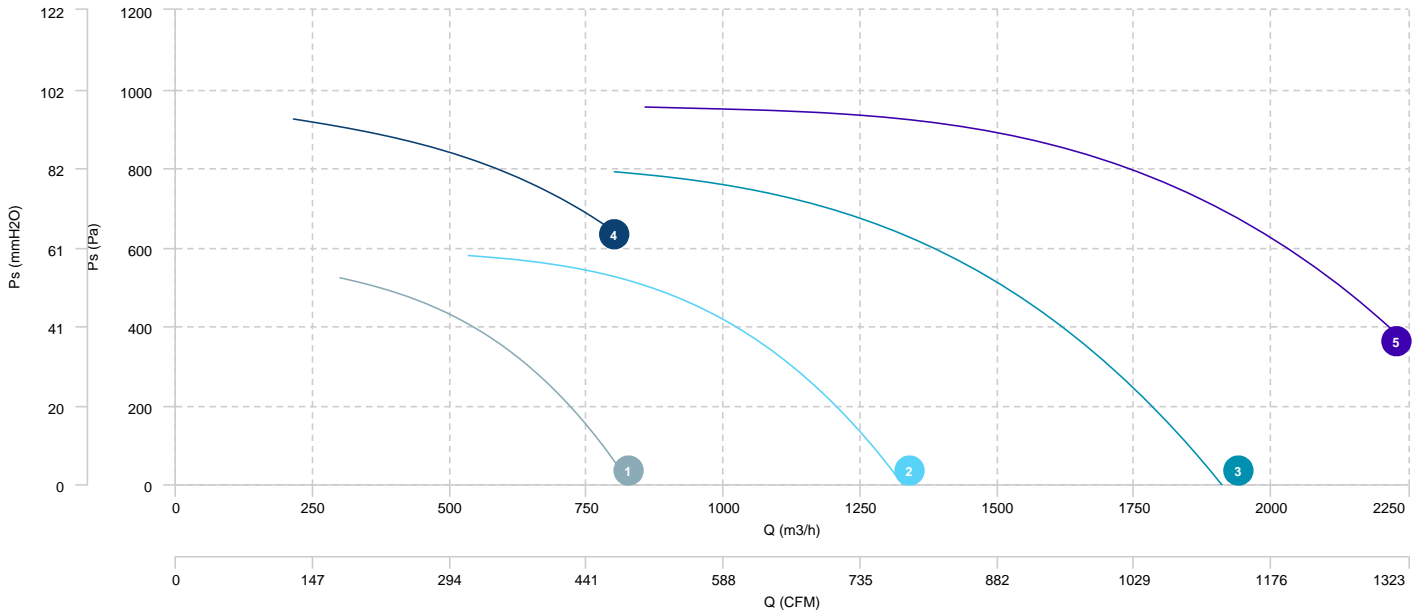


AIR FLOW - ABSORBED POWER

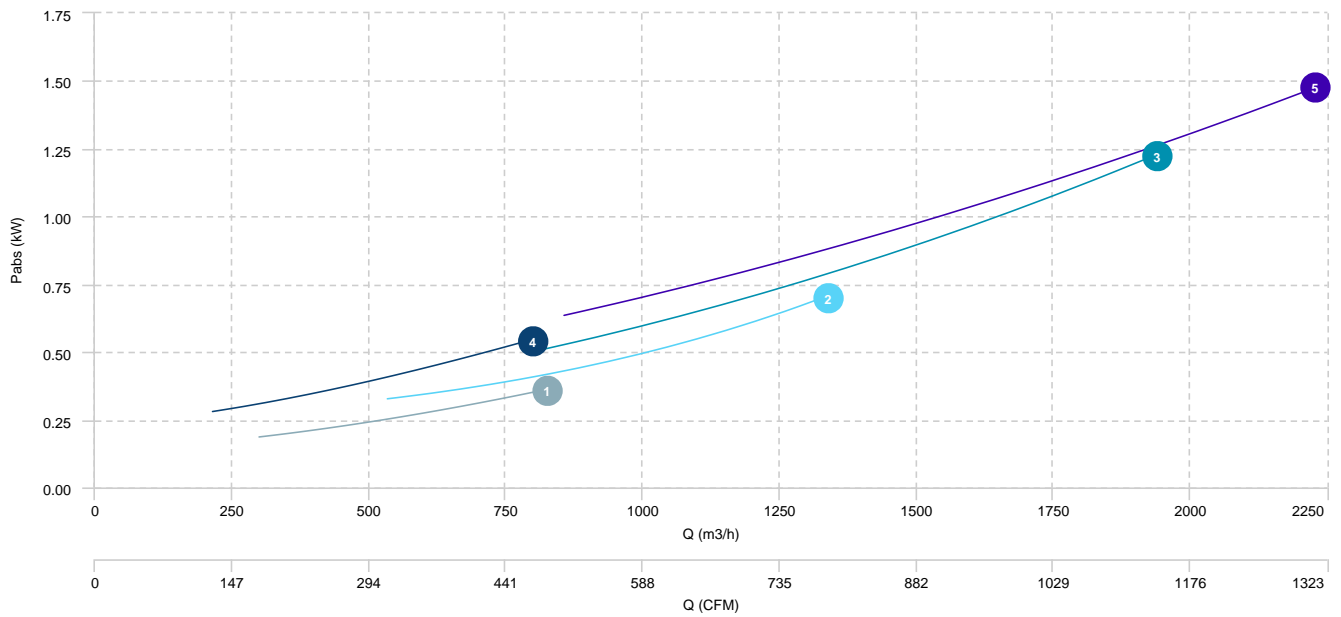


- 1 MB 14/5 T2 0,25kW
- 2 MB 16/6 T2 0,37kW
- 3 MB 18/7 T2 0,75kW
- 4 MB 20/6 T2 0,37kW
- 5 MB 20/8 T2 1,1kW

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER

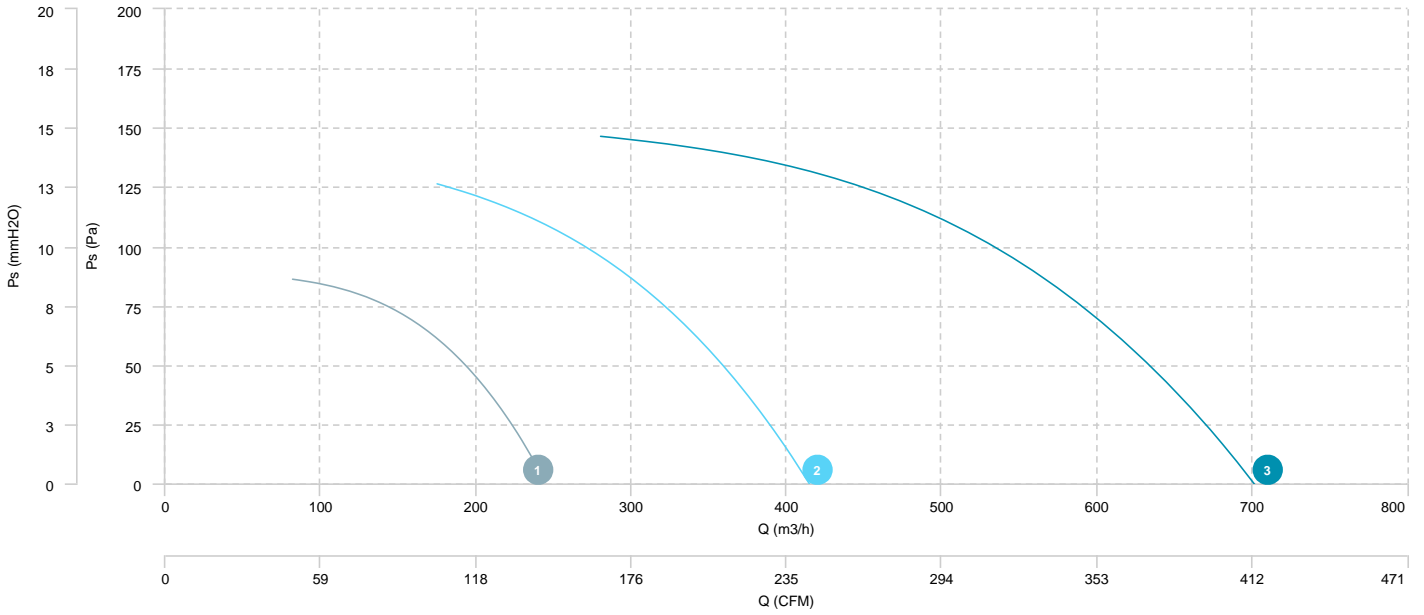


1 MB 12/5 T4 0,08kW

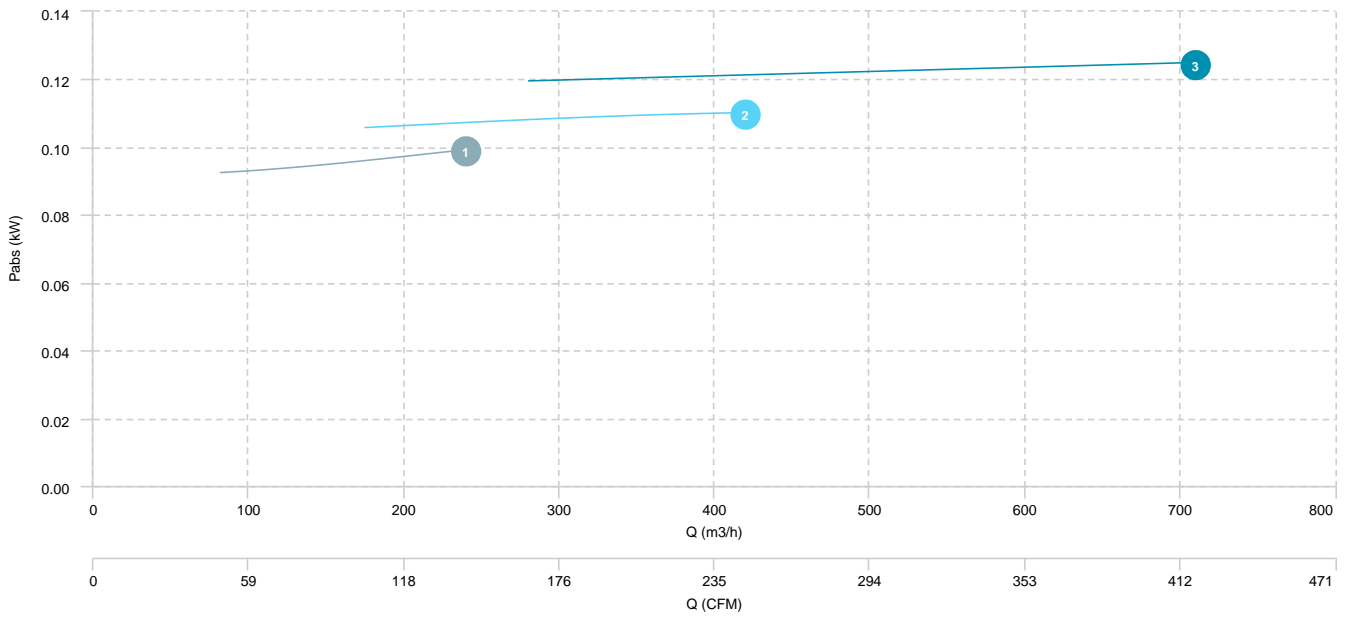
2 MB 14/5 T4 0,08kW

3 MB 16/6 T4 0,08kW

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



Sound data

Sound / 2 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
MB 14/5 M2 0,25kW	Inlet	49	60	71	74	76	80	76	74	84
MB 14/5 T2 0,25kW	Inlet	49	60	71	74	76	80	76	74	84
MB 16/6 M2 0,37kW	Inlet	51	63	74	77	79	83	78	76	86
MB 16/6 T2 0,37kW	Inlet	51	63	74	77	79	83	78	76	86
MB 18/7 M2 0,75kW	Inlet	54	65	76	79	81	85	81	79	89
MB 18/7 T2 0,75kW	Inlet	54	65	76	79	81	85	81	79	89
MB 20/6 M2 0,37kW	Inlet	52	63	74	77	79	83	79	77	87
MB 20/6 T2 0,37kW	Inlet	52	63	74	77	79	83	79	77	87
MB 20/8 M2 1,1kW	Inlet	56	68	79	82	84	88	83	82	91
MB 20/8 T2 1,1kW	Inlet	56	68	79	82	84	88	83	82	91

Sound / 4 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
MB 12/5 M4 0,08kW	Inlet	42	55	61	62	67	68	64	61	72
MB 12/5 T4 0,08kW	Inlet	42	55	61	62	67	68	64	61	72
MB 14/5 M4 0,08kW	Inlet	42	55	61	62	67	68	64	61	72
MB 14/5 T4 0,08kW	Inlet	42	55	61	62	67	68	64	61	72
MB 16/6 M4 0,08kW	Inlet	49	62	68	69	74	75	71	68	79
MB 16/6 T4 0,08kW	Inlet	49	62	68	69	74	75	71	68	79

erp data

ERP	
Fan type	Centrifugal fan radial or forward blades
Installation category	B
Efficiency category	Total
The fan has to be installed with FSC	No

ERP / 2 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Pt (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MB 14/5 M2 0,25kW	0,25	35,88	45,78	591,93	534,51	0,27	2800	1,00
MB 14/5 T2 0,25kW	0,25	35,88	45,78	591,93	534,51	0,27	2800	1,00
MB 16/6 M2 0,37kW	0,37	41,88	50,27	948,61	668,68	0,47	2800	1,00
MB 16/6 T2 0,37kW	0,37	41,88	50,27	948,61	668,68	0,47	2800	1,00
MB 18/7 M2 0,75kW	0,75	46,02	53,42	1.149,26	923,45	0,68	2800	1,00
MB 18/7 T2 0,75kW	0,75	46,02	53,42	1.149,26	923,45	0,68	2800	1,00
MB 20/6 M2 0,37kW	0,37	37,69	45,67	800	699,54	0,55	2800	1,00
MB 20/6 T2 0,37kW	0,37	37,69	45,67	800	699,54	0,55	2800	1,00
MB 20/8 M2 1,1kW	1,1	48,98	55,36	1.507,40	1.098,97	0,98	2820	1,00
MB 20/8 T2 1,1kW	1,1	48,98	55,36	1.507,40	1.098,97	0,98	2800	1,00