

MBX



CENTRIFUGAL MEDIUM PRESSURE ATEX FAN

MANUFACTURING FEATURES

- Rolling steel sheet housing.
- Completely joined or welded housing.
- Simple inlet forward curved impeller made of aluminium sheet.
- Polyester powder finishing coat.
- Inlet sparkproof ring made of copper or aluminium.
- ATEX standard asynchronous motor. ATEX certified according to the zone. IP55 protection, and class F insulation. Manufactured with standard voltages: 230V 50Hz for single phase motors, 230/400V 50Hz for three phase motors up to 4kW and 400/690V 50Hz for higher powers.

- Available positions (to be indicated in case of order): LG270, LG0, LG45, LG90, LG135, LG180, LG225, LG315, RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315.
- The indicated codes correspond to the model in position LG270

Accessories



AB



AC



AVR



AVS



BA-400



EI



FS



INT



**INT
ATEX**



JE 45



RA



RBS



SFC

APPLICATIONS

Designed for inline installation, they are suitable for:

- Ventilation in indoor environments classified as ATEX
- Working temperature: ambient from -20°C to 40°C, transported air according to the ATEX classification.
- Suitable for transporting totally clean air without dust.

UNDER REQUEST

- 60Hz fans and special voltages.

ORGANISM: L.O.M.

CERTIFICAT N°: LOM 17.407N-C

In compliance with the Directive 2014/34/UE

Technical data

Single-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. A 230V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
253100103XD	MBX 14/5 M2 0,25kW	2800	1,87	0,25	840	58	7	1
253110103XD	MBX 16/6 M2 0,37kW	2800	2,61	0,37	1.080	60	9,50	1
253170103XD	MBX 18/7 M2 0,75kW	2800	4,93	0,75	1.470	63	15	1
253240103XD	MBX 20/6 M2 0,37kW	2800	2,61	0,37	785	61	14	1
253190103XD	MBX 20/8 M2 1,1kW	2800	6,71	1,10	1.960	65	19	1

Three-phase motor / 2 poles

Code	Model	R.P.M.	Rated I. A 400V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
253100106XN	MBX 14/5 T2 0,25kW	2750	0,74	0,25	840	58	7	2
253110106XN	MBX 16/6 T2 0,37kW	2850	1,00	0,37	1.080	60	9,50	2
253170106XN	MBX 18/7 T2 0,75kW	2870	2,00	0,75	1.470	63	15	2
253240106XN	MBX 20/6 T2 0,37kW	2850	1,00	0,37	785	61	14	2
253190106XN	MBX 20/8 T2 1,1kW	2830	2,6	1,10	1.960	65	19	2
253210120XN	MBX 22/9 T2 1,1kW	2830	2,6	1,10	1.480	55	24	2
253200106XN	MBX 22/9 T2 2,2kW	2840	5,4	2,20	2.890	65	30	2
253280106XN	MBX 25/10 T2 2,2kW	2840	5,4	2,20	2.540	62	32	2
253290106XN	MBX 25/10 T2 3kW	2900	7,3	3,00	3.360	66	38	2
253360106XN	MBX 28/11 T2 4kW	2910	9,2	4,00	3.800	70	46	2

Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
253080106XE	MBX 12/5 T4 0,09kW	1450	0,57	0,33	0,09	250	46	5	2
253090106XE	MBX 14/5 T4 0,09kW	1450	0,57	0,33	0,09	414	46	6	2
253150106XE	MBX 16/6 T4 0,09kW	1450	0,57	0,33	0,09	600	53	7,50	2
253260106XN	MBX 22/9 T4 0,37kW	1410	-	1,2	0,37	1.830	59	21	2
253320106XN	MBX 25/10 T4 0,75kW	1410	-	2,1	0,75	2.830	59	26	2
253410106XN	MBX 28/11 T4 1,1kW	1420	-	3,3	1,10	3.580	65	32	2
253420106XN	MBX 31/12 T4 2,2kW	1440	-	5,8	2,20	5.400	63	54	2
253480106XN	MBX 35/14 T4 3kW	1420	-	6,8	3,00	5.870	65	63	2
253490106XN	MBX 35/14 T4 4kW	1450	-	9,1	4,00	8.020	64	69	2

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
253510121XN	MBX 40/16 T4 5,5kW	1455	-	11,5	5,50	8.340	68	101	2
253510106XN	MBX 40/16 T4 7,5kW	1448	-	15,6	7,50	10.570	72	110	2
253530120XN	MBX 45/18 T4 7,5kW	1448	-	15,6	7,50	9.160	75	119	2
253530121XN	MBX 45/18 T4 11kW	1460	-	20,9	11,00	12.500	76	190	2

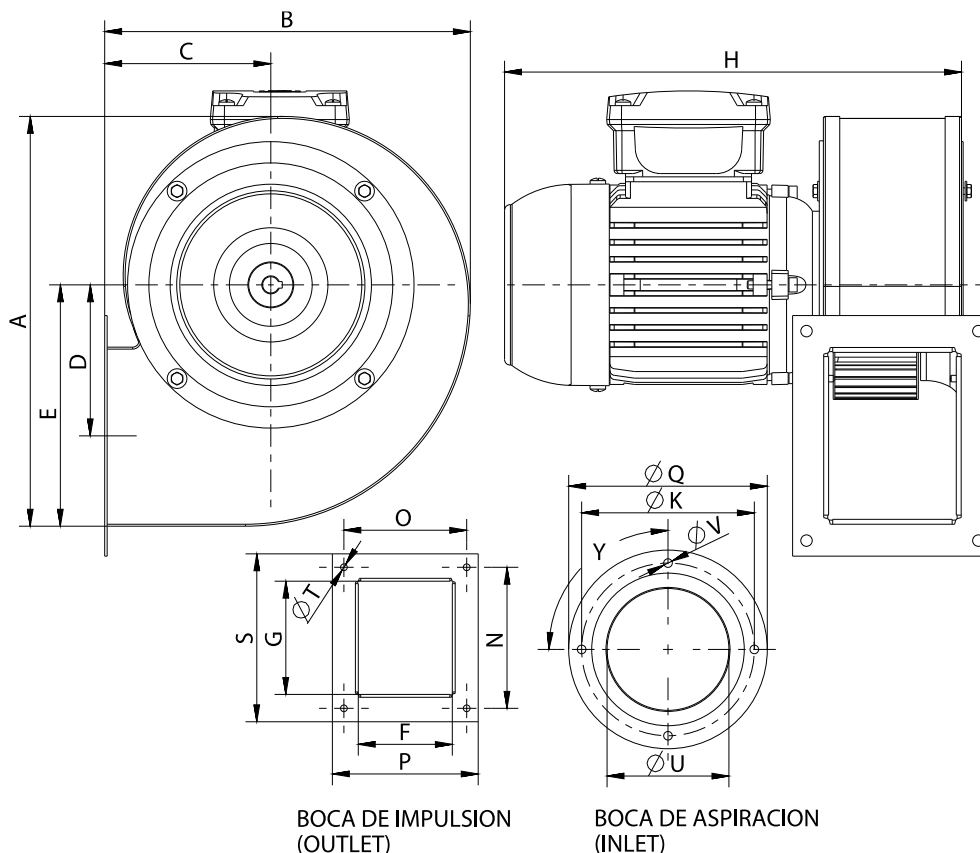
Three-phase motor / 6 poles

Code	Model	R.P.M.	Rated I. A 400V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
253500106XN	MBX 35/14 T6 1,1kW	940	4,00	1,50	5.200	58	53	2
253520106XN	MBX 40/16 T6 1,5kW	940	4,00	1,50	5.650	59	94	2
253540106XN	MBX 40/16 T6 2,2kW	930	5,2	2,20	7.530	59	94	2
253560106XN	MBX 45/18 T6 2,2kW	930	5,2	2,20	6.060	64	112	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

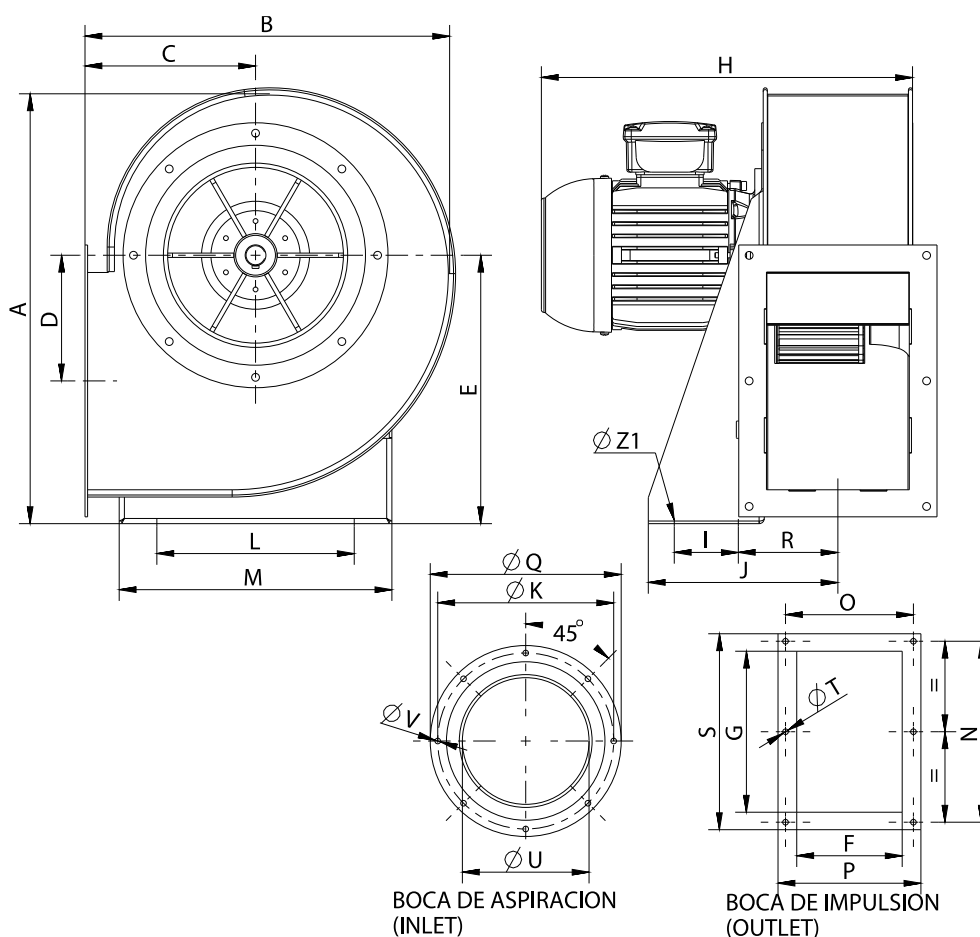
Dimensions



Model	A	B	C	D	E	F	G	H	K
MBX 12/5 T4 0,09kW	205,5	187	87	71,5	117	72	81,7	251	135
MBX 14/5 M2 0,25kW	250,5	223	102	93	147,5	78	102	278	162
MBX 14/5 T2 0,25kW	250,5	223	102	93	147,5	78	102	278	162
MBX 14/5 T4 0,09kW	250,5	223	102	93	147,5	78	102	278	162
MBX 16/6 M2 0,37kW	295	266	119	108,5	171,5	98	118	325	180
MBX 16/6 T2 0,37kW	295	266	119	108,5	171,5	98	118	325	180
MBX 16/6 T4 0,09kW	295	266	119	108,5	171,5	98	118	298	180
MBX 18/7 M2 0,75kW	365	321	139	141,5	213	115	141,5	360	214
MBX 18/7 T2 0,75kW	365	321	139	141,5	213	115	141,5	360	214
MBX 20/6 M2 0,37kW	364	321	141	142	210	105	101,5	333	230
MBX 20/6 T2 0,37kW	364	321	141	142	210	105	101,5	333	230
MBX 20/8 M2 1,1kW	392	331	140	142	230	130	161,5	374	230
MBX 20/8 T2 1,1kW	392	331	140	142	230	130	161,5	374	230

Model	N	O	P	Q	S	TØ	UØ	VØ	Y
MBX 12/5 T4 0,09kW	105	93	106	150	118	7	92,5	7	4x90°
MBX 14/5 M2 0,25kW	128	105	122	175	147	7	115	7	4x90°

Model	N	O	P	Q	S	TØ	UØ	VØ	Y
MBX 14/5 T2 0,25kW	128	105	122	175	147	7	115	7	4x90º
MBX 14/5 T4 0,09kW	128	105	122	175	147	7	115	7	4x90º
MBX 16/6 M2 0,37kW	147	128	152	207	175	7	127	9	4x90º
MBX 16/6 T2 0,37kW	147	128	152	207	175	7	127	9	4x90º
MBX 16/6 T4 0,09kW	147	128	152	207	175	7	127	9	4x90º
MBX 18/7 M2 0,75kW	169	146	169	237	192	9	143	9	4x90º
MBX 18/7 T2 0,75kW	169	146	169	237	192	9	143	9	4x90º
MBX 20/6 M2 0,37kW	128	134	159	255	153	9	161	9	8x45º
MBX 20/6 T2 0,37kW	128	134	159	255	153	9	161	9	8x45º
MBX 20/8 M2 1,1kW	189	160	184	255	213	9	161	9	8x45º
MBX 20/8 T2 1,1kW	189	160	184	255	213	9	161	9	8x45º

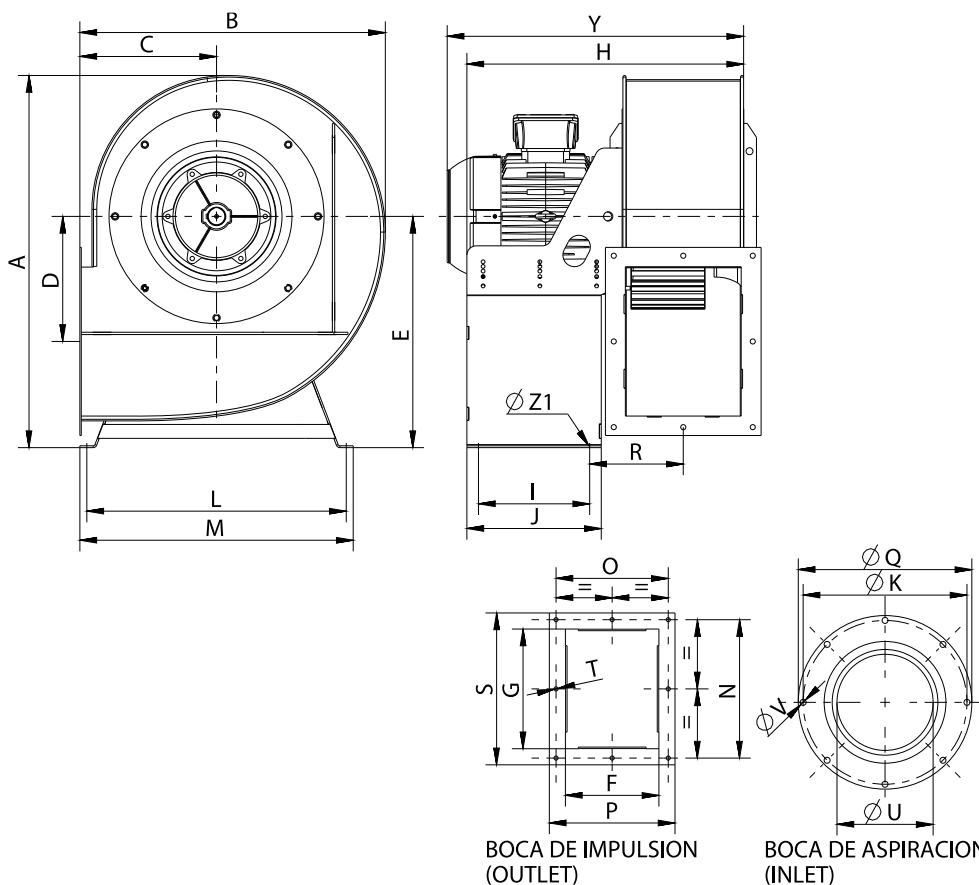


Model	A	B	C	D	E	F	G	H	I
MBX 22/9 T2 1,1kW	455	393,5	184	140	280	140	216	385,5	50
MBX 22/9 T2 2,2kW	455	393,5	184	140	280	140	216	429	50

Model	A	B	C	D	E	F	G	H	I
MBX 22/9 T4 0,37kW	455	393,5	184	140	280	140	216	369,5	50
MBX 25/10 T2 2,2kW	502,5	429	197	150,5	310	165	254	463	74
MBX 25/10 T2 3kW	502,5	429	197	150,5	310	165	254	498	74
MBX 25/10 T4 0,75kW	502,5	429	197	150,5	310	165	254	427	74
MBX 28/11 T2 4kW	555	475	216	160	340	176	300	529,5	95
MBX 28/11 T4 1,1kW	555	475	216	160	340	176	300	453,5	95

Model	J	K	L	M	N	O	P	Q	R
MBX 22/9 T2 1,1kW	182.5	256	220	290	256	180	204	280	102
MBX 22/9 T2 2,2kW	182.5	256	220	290	256	180	204	280	102
MBX 22/9 T4 0,37kW	182.5	256	220	290	256	180	204	280	102
MBX 25/10 T2 2,2kW	219	282	228	315	290	205	229	306	114,5
MBX 25/10 T2 3kW	219	282	228	315	290	205	229	306	114,5
MBX 25/10 T4 0,75kW	219	282	228	315	290	205	229	306	114,5
MBX 28/11 T2 4kW	234.5	320	245	350	340	220	244	348	110
MBX 28/11 T4 1,1kW	234.5	320	245	350	340	220	244	348	110

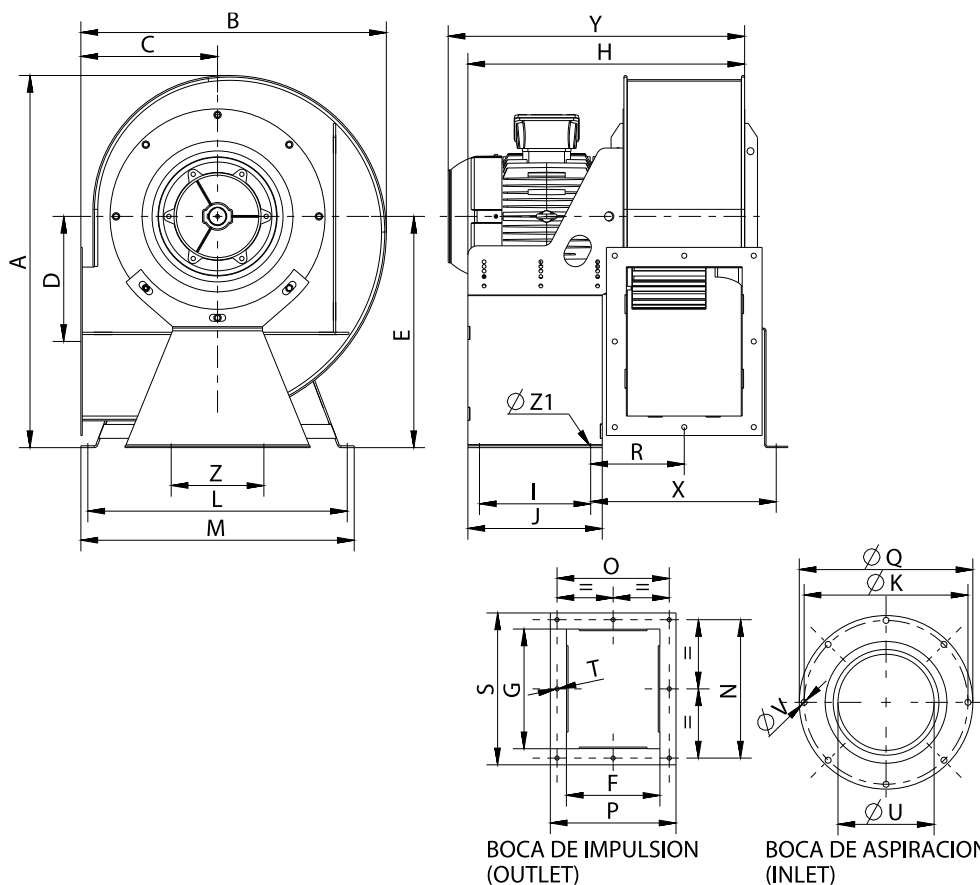
Model	S	TØ	UØ	VØ	Z1Ø
MBX 22/9 T2 1,1kW	282	9	180	9	11
MBX 22/9 T2 2,2kW	282	9	180	9	11
MBX 22/9 T4 0,37kW	282	9	180	9	11
MBX 25/10 T2 2,2kW	314	9	203	9	11
MBX 25/10 T2 3kW	314	9	203	9	11
MBX 25/10 T4 0,75kW	314	9	203	9	11
MBX 28/11 T2 4kW	364	11	228	9	11
MBX 28/11 T4 1,1kW	364	11	228	9	11



Model	A	B	C	D	E	F	G	H	I
MBX 31/12 T4 2,2kW	646	537	249	186	406	198	319	538	240
MBX 35/14 T4 3kW	722	593	270	249,5	451	224	280	564	240
MBX 35/14 T4 4kW	722	593	270	249,5	451	224	280	564	240
MBX 35/14 T6 1,1kW	722	593	270	249,5	451	224	280	564	240

Model	J	K	L	M	N	O	P	Q	R
MBX 31/12 T4 2,2kW	290	354,5	457	482	360	240	274	382	171
MBX 35/14 T4 3kW	290	394,5	449	474	318	266	300	422	184
MBX 35/14 T4 4kW	290	394,5	449	474	318	266	300	422	184
MBX 35/14 T6 1,1kW	290	394,5	449	474	318	266	300	422	184

Model	S	TØ	UØ	VØ	Y	Z1
MBX 31/12 T4 2,2kW	395	11	257	11	539,5	13
MBX 35/14 T4 3kW	356	11	289	11	565,75	13
MBX 35/14 T4 4kW	356	11	289	11	600	13
MBX 35/14 T6 1,1kW	356	11	289	11	540	13



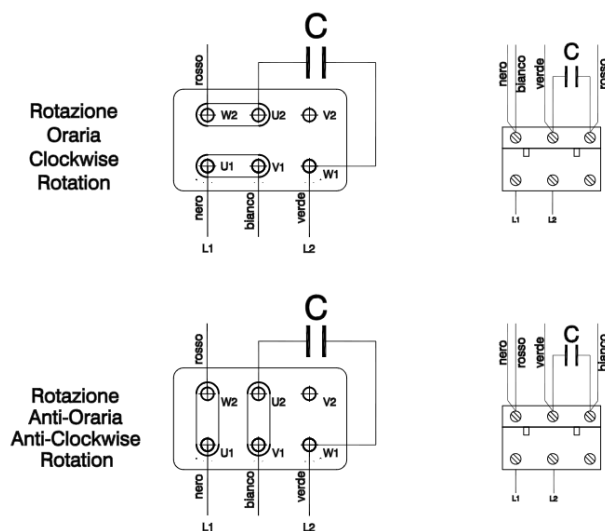
Model	A	B	C	D	E	F	G	H	I
MBX 40/16 T4 5,5kW	802	658	295	279	499	250	320	595	240
MBX 40/16 T4 7,5kW	802	658	295	279	499	250	320	595	240
MBX 40/16 T6 1,5kW	802	658	295	279	499	250	320	595	240
MBX 40/16 T6 2,2kW	802	658	295	279	499	250	320	595	240
MBX 45/18 T4 7,5kW	891	737	329	314,5	553	280	360	791	250
MBX 45/18 T4 11kW	891	737	329	314,5	553	280	360	791	400
MBX 45/18 T6 2,2kW	891	737	329	314,5	553	280	360	791	250

Model	J	K	L	M	N	O	P	Q	R
MBX 40/16 T4 5,5kW	290	438	560	590	370	300	336	464	202
MBX 40/16 T4 7,5kW	290	438	560	590	370	300	336	464	202
MBX 40/16 T6 1,5kW	290	438	560	590	370	300	336	464	202
MBX 40/16 T6 2,2kW	290	438	560	590	370	300	336	464	202
MBX 45/18 T4 7,5kW	300	485	602	632	404	328	356	515	207
MBX 45/18 T4 11kW	450	485	602	632	404	328	356	515	207
MBX 45/18 T6 2,2kW	300	485	602	632	404	328	356	515	207

Model	S	TØ	UØ	VØ	X	Y	Z	Z1
MBX 40/16 T4 5,5kW	406	11	325	11	400	667,75	200	13
MBX 40/16 T4 7,5kW	406	11	325	11	400	707,75	200	13
MBX 40/16 T6 1,5kW	406	11	325	11	400	612,75	200	13
MBX 40/16 T6 2,2kW	406	11	325	11	400	612,75	200	13
MBX 45/18 T4 7,5kW	436	11	365	11	415	726,75	200	13
MBX 45/18 T4 11kW	436	11	365	11	430	802,75	200	13
MBX 45/18 T6 2,2kW	436	11	365	11	415	631,75	200	13

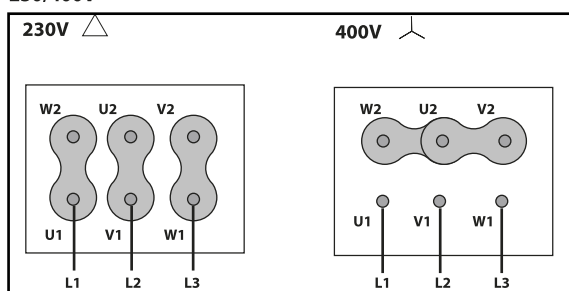
Wiring diagram

Wiring diagram N° 1

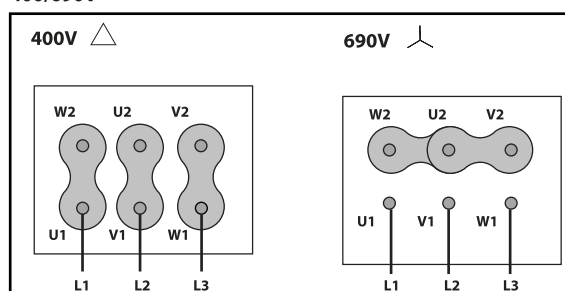


Wiring diagram N° 2

230/400V



400/690V



CHARACTERISCTIC CURVE

1 MBX 14/5 M2 0,25kW

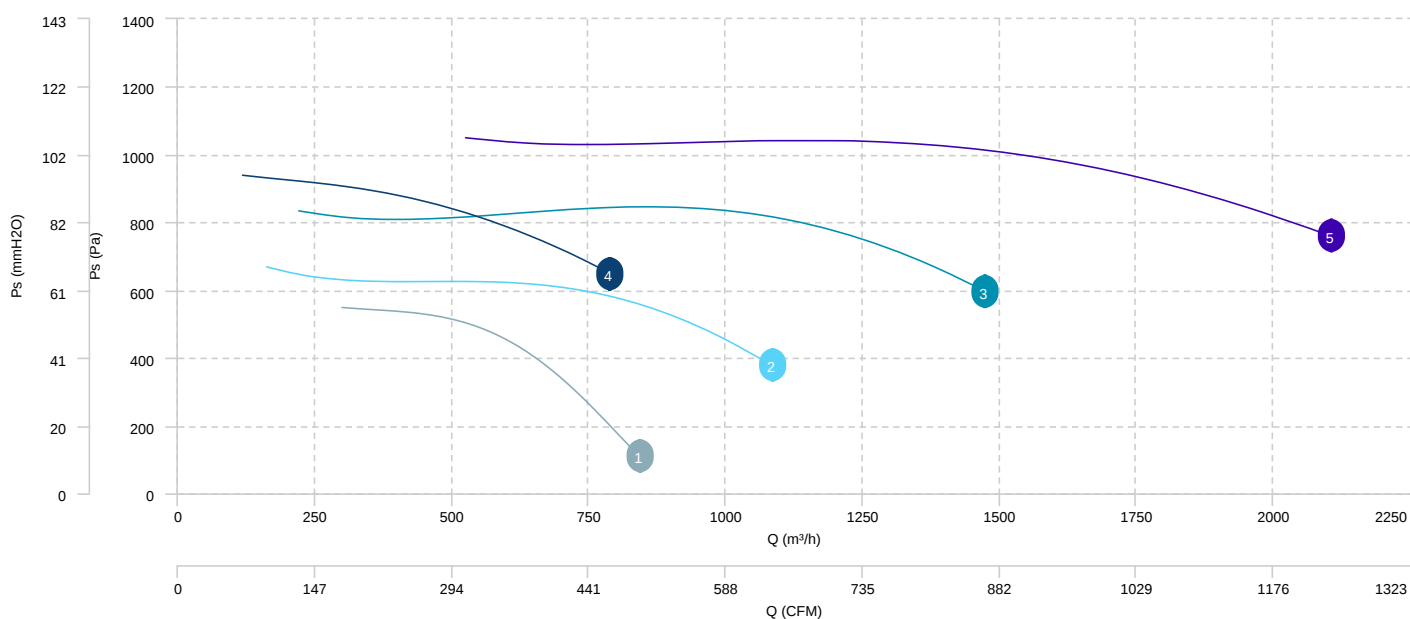
2 MBX 16/6 M2 0,37kW

3 MBX 18/7 M2 0,75kW

4 MBX 20/6 M2 0,37kW

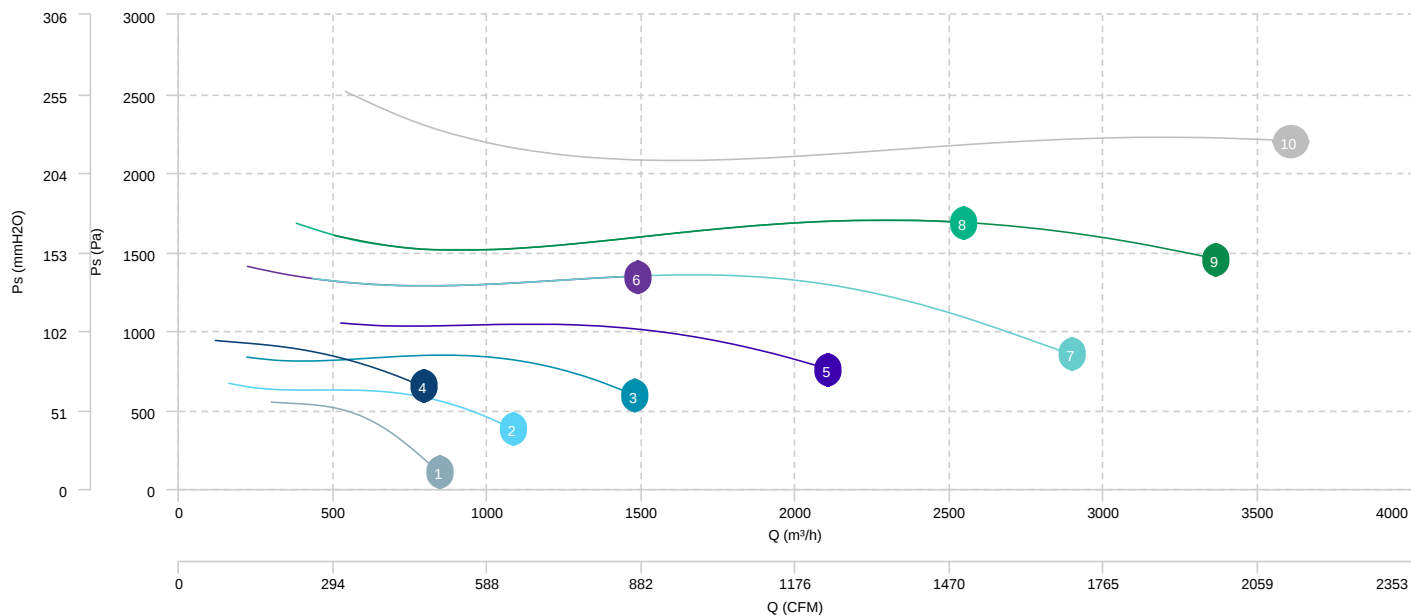
5 MBX 20/8 M2 1,1kW

AIR FLOW - PRESSURE



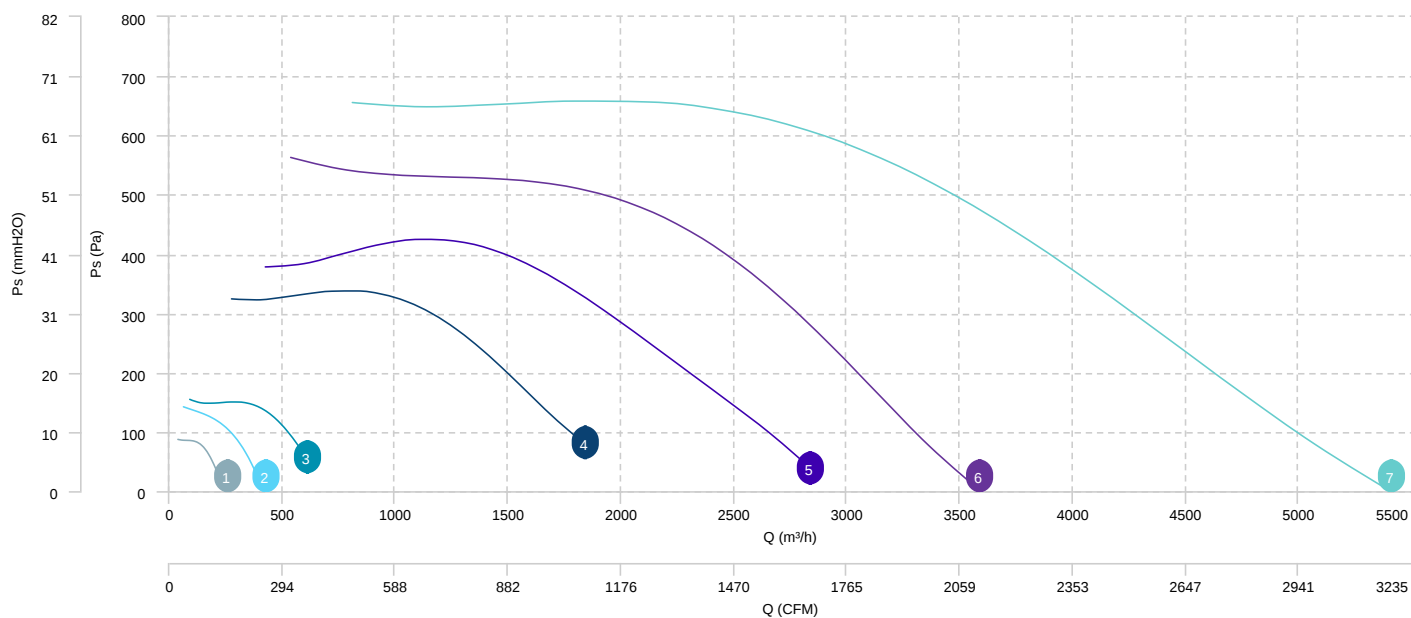
1	MBX 14/5 T2 0,25kW	2	MBX 16/6 T2 0,37kW	3	MBX 18/7 T2 0,75kW	4	MBX 20/6 T2 0,37kW
5	MBX 20/8 T2 1,1kW	6	MBX 22/9 T2 1,1kW	7	MBX 22/9 T2 2,2kW	8	MBX 25/10 T2 2,2kW
9	MBX 25/10 T2 3kW	10	MBX 28/11 T2 4kW				

AIR FLOW - PRESSURE



1	MBX 12/5 T4 0,09kW	2	MBX 14/5 T4 0,09kW	3	MBX 16/6 T4 0,09kW	4	MBX 22/9 T4 0,37kW
5	MBX 25/10 T4 0,75kW	6	MBX 28/11 T4 1,1kW	7	MBX 31/12 T4 2,2kW		

AIR FLOW - PRESSURE



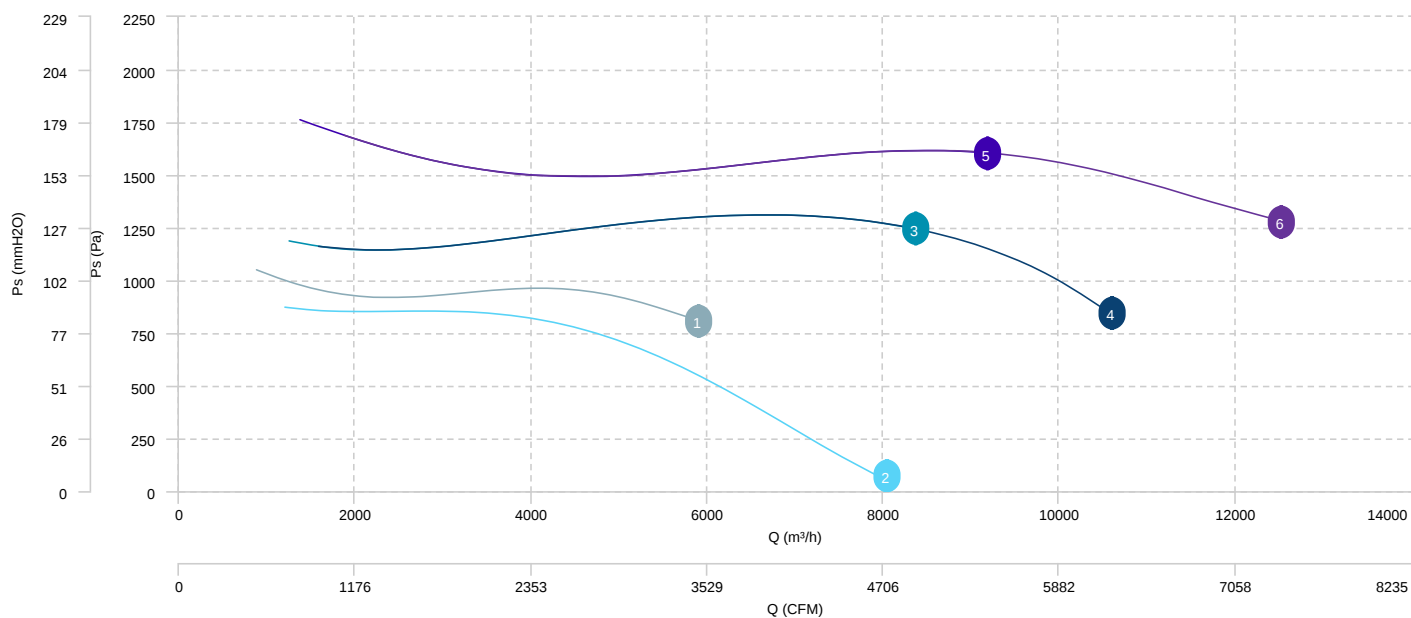
1	MBX 35/14 T4 3kW
5	MBX 45/18 T4 7,5kW

2	MBX 35/14 T4 4kW
6	MBX 45/18 T4 11kW

3	MBX 40/16 T4 5,5kW
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4	MBX 40/16 T4 7,5kW
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AIR FLOW - PRESSURE



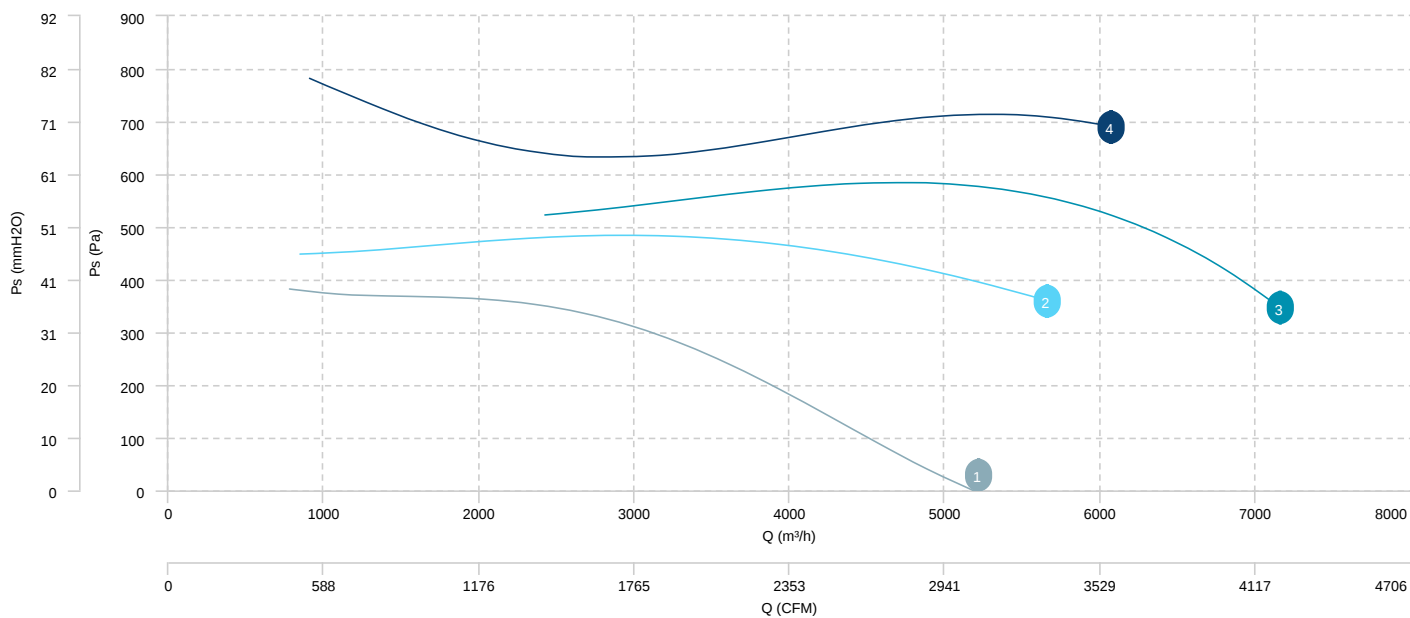
1 MBX 35/14 T6 1,1kW

2 MBX 40/16 T6 1,5kW

3 MBX 40/16 T6 2,2kW

4 MBX 45/18 T6 2,2kW

AIR FLOW - PRESSURE



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
MBX 14/5 M2 0,25kW	Inlet	49	60	71	74	76	80	76	74	84
MBX 14/5 T2 0,25kW	Inlet	49	60	71	74	76	80	76	74	84
MBX 16/6 M2 0,37kW	Inlet	51	63	74	77	79	83	78	76	86
MBX 16/6 T2 0,37kW	Inlet	51	63	74	77	79	83	78	76	86
MBX 18/7 M2 0,75kW	Inlet	54	65	76	79	81	85	81	79	89
MBX 18/7 T2 0,75kW	Inlet	54	65	76	79	81	85	81	79	89
MBX 20/6 M2 0,37kW	Inlet	52	63	74	77	79	83	79	77	87
MBX 20/6 T2 0,37kW	Inlet	52	63	74	77	79	83	79	77	87
MBX 20/8 M2 1,1kW	Inlet	56	68	79	82	84	88	83	82	91
MBX 20/8 T2 1,1kW	Inlet	56	68	79	82	84	88	83	82	91
MBX 22/9 T2 1,1kW	Inlet	46	57	68	71	73	77	73	71	81
MBX 22/9 T2 2,2kW	Inlet	56	67	78	81	83	87	83	81	91
MBX 25/10 T2 2,2kW	Inlet	53	64	75	78	80	84	80	78	88
MBX 25/10 T2 3kW	Inlet	57	68	79	83	85	88	84	82	92
MBX 28/11 T2 4kW	Inlet	61	72	83	86	88	92	88	86	96

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
MBX 12/5 T4 0,09kW	Inlet	42	55	61	62	67	68	64	61	72
MBX 14/5 T4 0,09kW	Inlet	42	55	61	62	67	68	64	61	72
MBX 16/6 T4 0,09kW	Inlet	49	62	68	69	74	75	71	68	79
MBX 22/9 T4 0,37kW	Inlet	54	66	73	74	79	80	76	72	85
MBX 25/10 T4 0,75kW	Inlet	54	67	73	74	79	80	76	73	85
MBX 28/11 T4 1,1kW	Inlet	60	73	79	80	85	86	82	79	91
MBX 31/12 T4 2,2kW	Inlet	58	71	77	78	83	84	80	77	89
MBX 35/14 T4 3kW	Inlet	60	73	79	80	85	86	82	79	91
MBX 35/14 T4 4kW	Inlet	59	72	78	79	84	85	81	78	90
MBX 40/16 T4 5,5kW	Inlet	63	76	82	83	88	89	85	82	94
MBX 40/16 T4 7,5kW	Inlet	67	80	86	87	92	93	89	86	98
MBX 45/18 T4 7,5kW	Inlet	70	83	89	90	95	96	92	89	101
MBX 45/18 T4 11kW	Inlet	71	84	90	91	96	97	93	90	102

Sound / 6 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
MBX 35/14 T6 1,1kW	Inlet	53	66	72	73	78	79	75	72	84
MBX 40/16 T6 1,5kW	Inlet	56	68	71	79	79	80	76	72	85
MBX 40/16 T6 2,2kW	Inlet	56	68	71	79	79	80	76	72	85
MBX 45/18 T6 2,2kW	Inlet	60	73	76	84	84	85	80	76	90