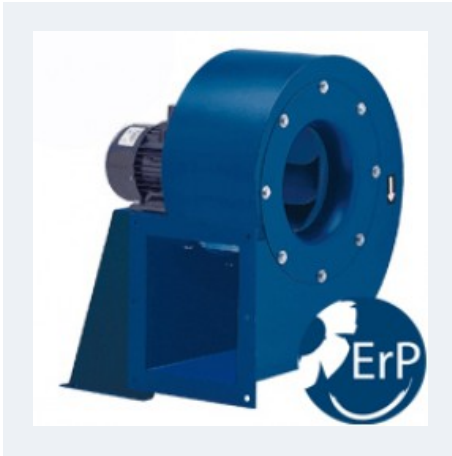


MBR



MEDIUM PRESSURE FAN WITH BACKWARD IMPELLER

MANUFACTURING FEATURES:

- Reinforced rolling steel sheet housings with epoxy powder coat finishing.
- Reinforced high efficiency backward curved impeller.
- Standard asynchronous squirrel-cage motor with IP-55 protection and Class F insulation. Manufactured with standard voltages: 230/400V 50Hz in three phase motors up to 4kW and 400/690V 50Hz for higher powers.
- Standard orientation: LG270.

APPLICATIONS:

Designed for inline installation, they are suitable for:

- Industrial applications, extraction or injection of air.
- Cooling of machines and parts.
- Clean and slightly dusty air transport.
- Exhaust after filters, separators and cyclones.
- Pneumatic transport.
- Maximum working temperature: carried air: 130°C, ambient: 60°C.

Accessories



AC



BAD



EI



FILTRO
EMC



INT



JE-45



RA



RBS



SFC

UNDER REQUEST:

- 60Hz fans and special voltages.
- 2 speed motor.
- Fan for air working temperatures up to 250°C with R/R (cooling impeller).
- Hot-dipped galvanised.
- Orientation: LG0, LG45, LG90, LG135, LG180; LG225, LG315, RD0, RD45, RD90, RD135, RD180; RD225, RD270, RD315.

Technical data

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	Connect. diagram
243310106	MBR 31/10 T2 1,1kW	2800	2,33	1,10	4.800	68	55	1
243350106	MBR 35/11 T2 2,2kW	2800	4,58	2,20	6.660	71	67	1
243410106	MBR 40/12 T2 3kW	2870	5,92	3	8.500	74	82	1

Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
243400106	MBR 40/12 T4 0,75kW	1390	1,63	0,75	5.640	59	71	1
243450106	MBR 45/14 T4 1,1kW	1400	2,49	1,10	7.200	62	90	1
243510106	MBR 50/16 T4 1,5kW	1400	3,26	1,50	9.500	64	74	1
243570106	MBR 56/18 T4 3kW	1430	6,17	3	13.500	70	97	1
243650106	MBR 63/20 T4 5,5kW	1440	10,5	5,50	19.000	71	155	1
243730106	MBR 71/22 T4 7,5kW	1440	14,1	7,50	25.500	77	256	1

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	Connect. diagram
243500106	MBR 50/16 T6 0,75kW	910	1,95	0,75	7.100	54	69	1
243560106	MBR 56/18 T6 1,5kW	940	3,71	1,50	9.500	61	89	1
243640106	MBR 63/20 T6 1,5kW	940	3,71	1,50	12.000	62	113	1
243720106	MBR 71/22 T6 3kW	960	7,3	3	17.000	68	205	1

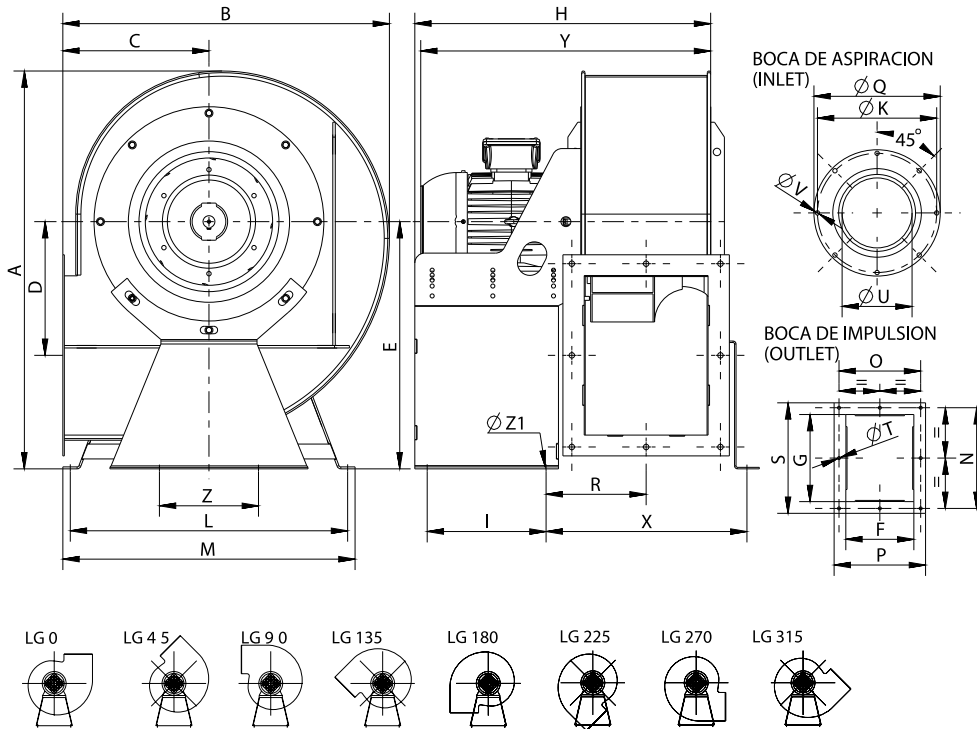
Three-phase motor / 8 poles

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
243630106	MBR 63/20 T8 1,1kW	710	3,41	1,10	8.940	56	102	1
243710106	MBR 71/22 T8 1,5kW	710	4,09	1,50	12.440	61	180	1

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	I
MBR 31/10 T2 1,1kW	640	531	249	180	406	198	319	538	240
MBR 35/11 T2 2,2kW	715	587	270	242	451	224	280	564	240
MBR 40/12 T2 3kW	796	652	295	271	499	250	320	595	240
MBR 40/12 T4 0,75kW	796	652	295	271	499	250	320	595	240
MBR 45/14 T4 1,1kW	887	730	329	305	553	280	360	625	250
MBR 50/16 T4 1,5kW	973	798	354	311	603	316	454	661	240
MBR 50/16 T6 0,75kW	973	798	354	311	603	316	454	661	240
MBR 56/18 T4 3kW	1086	901	403	378	672	355	450	698	250
MBR 56/18 T6 1,5kW	1086	901	403	378	672	355	450	698	250
MBR 63/20 T4 5,5kW	1212	1002	442	426	746	400	504	911	400
MBR 63/20 T6 1,5kW	1212	1002	442	426	746	400	504	911	400
MBR 63/20 T8 1,1kW	1212	1002	442	426	746	400	504	911	400
MBR 71/22 T4 7,5kW	1364	1131	500	479	839	451	571	962	400
MBR 71/22 T6 3kW	1364	1131	500	479	839	451	571	962	400
MBR 71/22 T8 1,5kW	1364	1131	500	479	839	451	571	962	400

Model	J	L	M	N	O	P	R	S	X
MBR 31/10 T2 1,1kW	290	457	482	360	240	274	171	395	-
MBR 35/11 T2 2,2kW	290	449	474	318	266	300	184	356	-

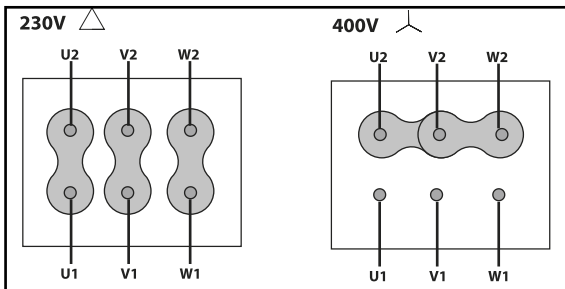
Model	J	L	M	N	O	P	R	S	X
MBR 40/12 T2 3kW	290	560	590	370	300	336	202	406	400
MBR 40/12 T4 0,75kW	290	560	590	370	300	336	202	406	400
MBR 45/14 T4 1,1kW	300	602	632	404	328	356	207	436	415
MBR 50/16 T4 1,5kW	290	652	682	500	365	402	235	540	466
MBR 50/16 T6 0,75kW	290	652	682	500	365	402	235	540	466
MBR 56/18 T4 3kW	300	760	790	491	390	431	242,5	526	493
MBR 56/18 T6 1,5kW	300	760	790	491	390	431	242,5	526	493
MBR 63/20 T4 5,5kW	450	832	872	546	441	486	283	590	561
MBR 63/20 T6 1,5kW	450	832	872	546	441	486	283	590	561
MBR 63/20 T8 1,1kW	450	832	872	546	441	486	283	590	561
MBR 71/22 T4 7,5kW	450	954	994	620	500	537	308,5	657	617
MBR 71/22 T6 3kW	450	954	994	620	500	537	308,5	657	617
MBR 71/22 T8 1,5kW	450	954	994	620	500	537	308,5	657	617

Model	Y	Z	ØK	ØQ	ØT	ØU	ØV	ØZ1
MBR 31/10 T2 1,1kW	473	-	354,5	382	11	203	11	13
MBR 35/11 T2 2,2kW	564	-	395	422	11	228	11	13
MBR 40/12 T2 3kW	585	200	438	464	11	257	11	13
MBR 40/12 T4 0,75kW	520	200	438	464	11	257	11	13
MBR 45/14 T4 1,1kW	585	200	485	515	11	289	11	13
MBR 50/16 T4 1,5kW	651	200	535	565	11	325	11	13
MBR 50/16 T6 0,75kW	626	200	535	565	11	325	11	13
MBR 56/18 T4 3kW	703	340	608	640	11	365	11	13
MBR 56/18 T6 1,5kW	703	340	608	640	11	365	11	13
MBR 63/20 T4 5,5kW	811	340	675	710	17	410	11	13
MBR 63/20 T6 1,5kW	751	340	675	710	17	410	11	13
MBR 63/20 T8 1,1kW	751	340	675	710	17	410	11	13
MBR 71/22 T4 7,5kW	902	400	755	785	17	460	11	13
MBR 71/22 T6 3kW	862	400	755	785	17	460	11	13
MBR 71/22 T8 1,5kW	817	400	755	785	17	460	11	13

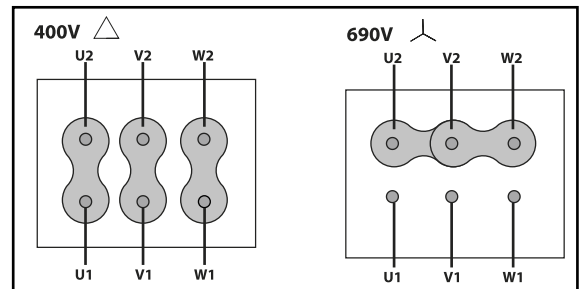
Wiring diagram

DIAGRAM Nº 1

230/400V



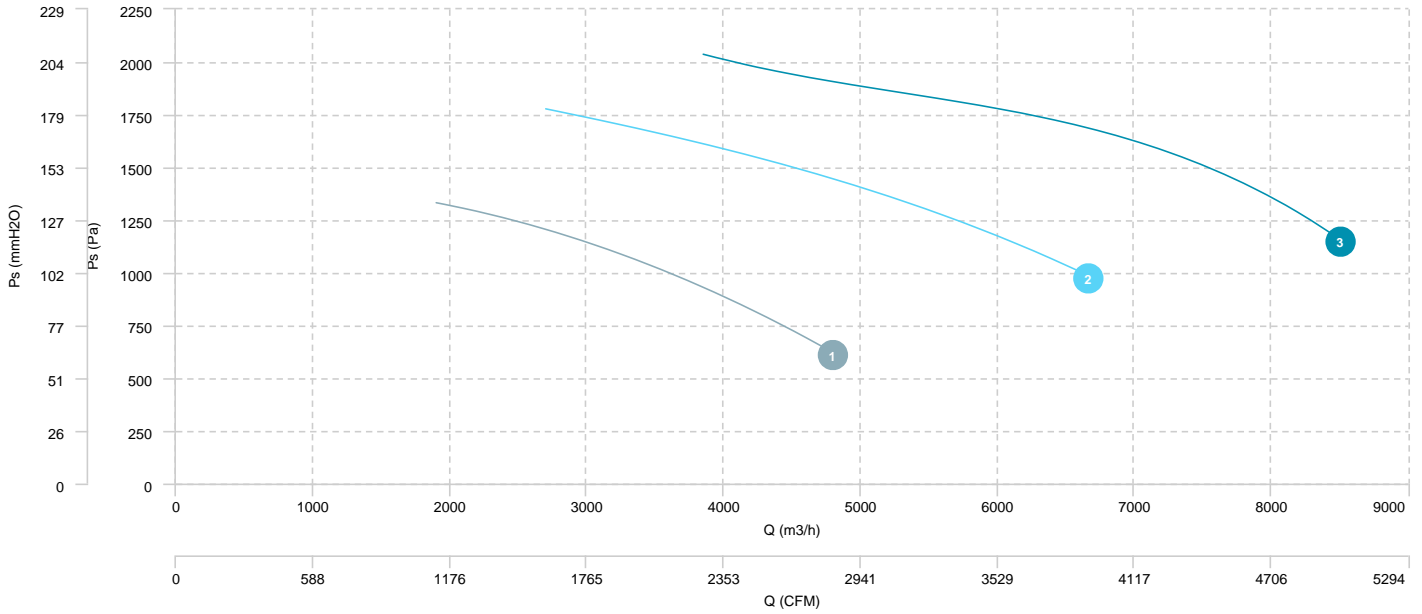
400/690V



CHARACTERISCTIC CURVE

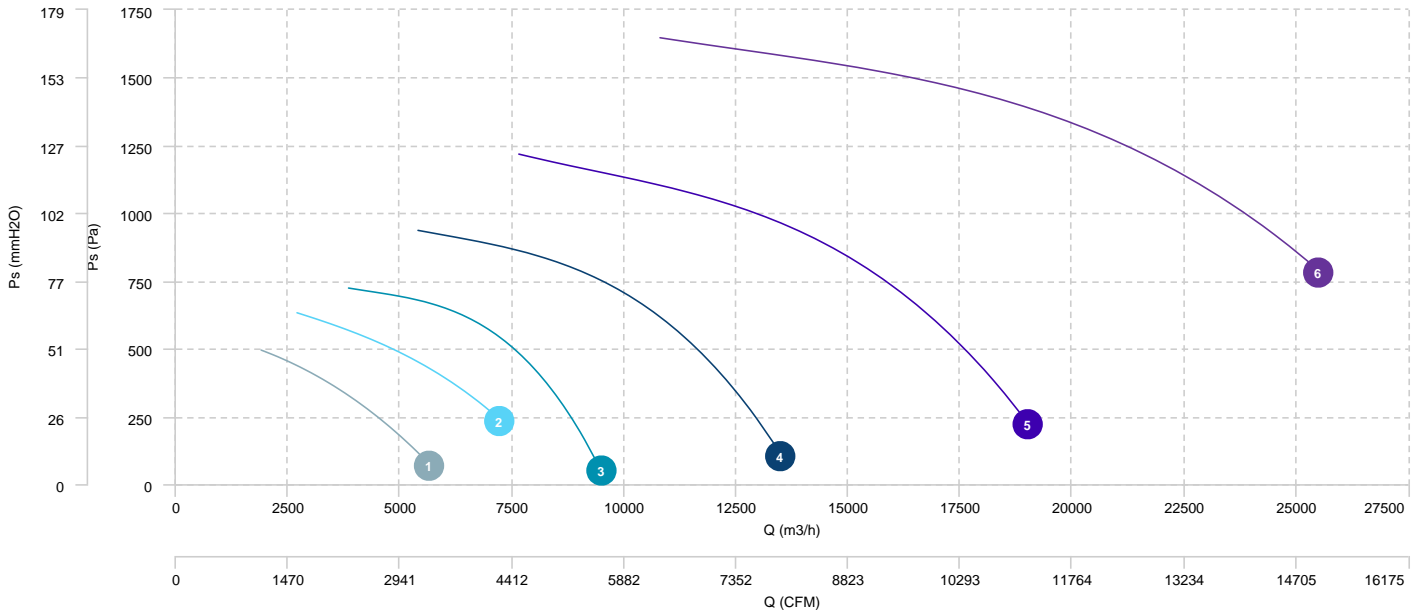
- 1 MBR 31/10 T2 1,1kW
- 2 MBR 35/11 T2 2,2kW
- 3 MBR 40/12 T2 3kW

AIR FLOW - PRESSURE

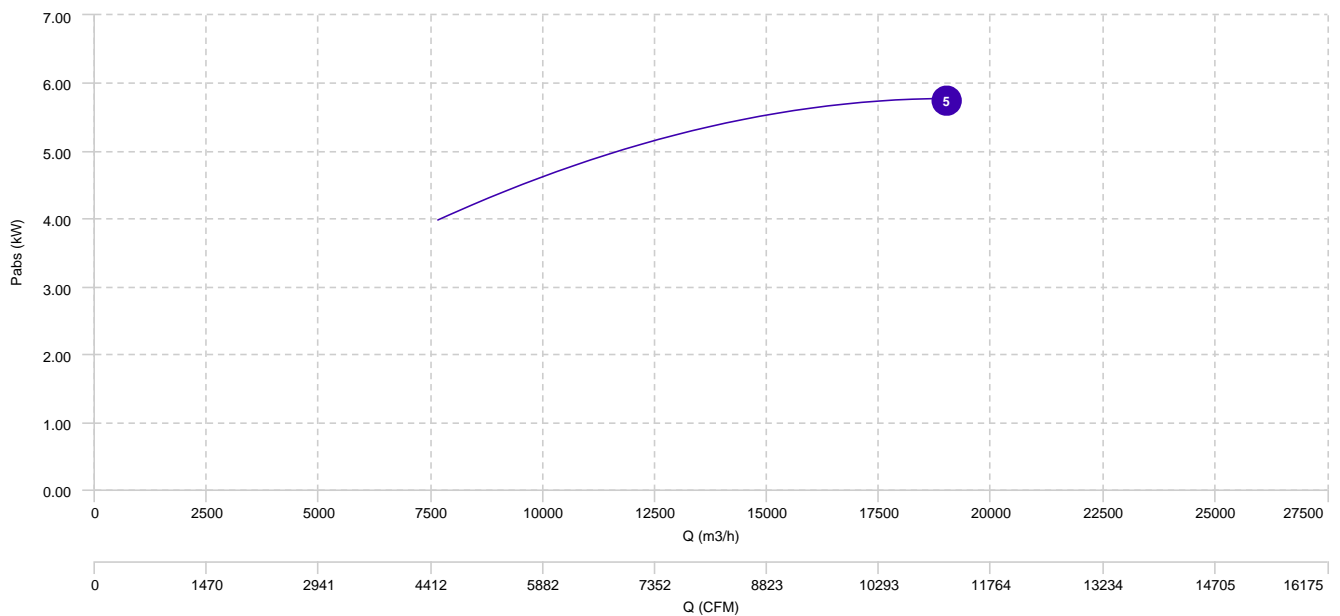


1	MBR 40/12 T4 0,75kW	2	MBR 45/14 T4 1,1kW	3	MBR 50/16 T4 1,5kW	4	MBR 56/18 T4 3kW
5	MBR 63/20 T4 5,5kW	6	MBR 71/22 T4 7,5kW				

AIR FLOW - PRESSURE

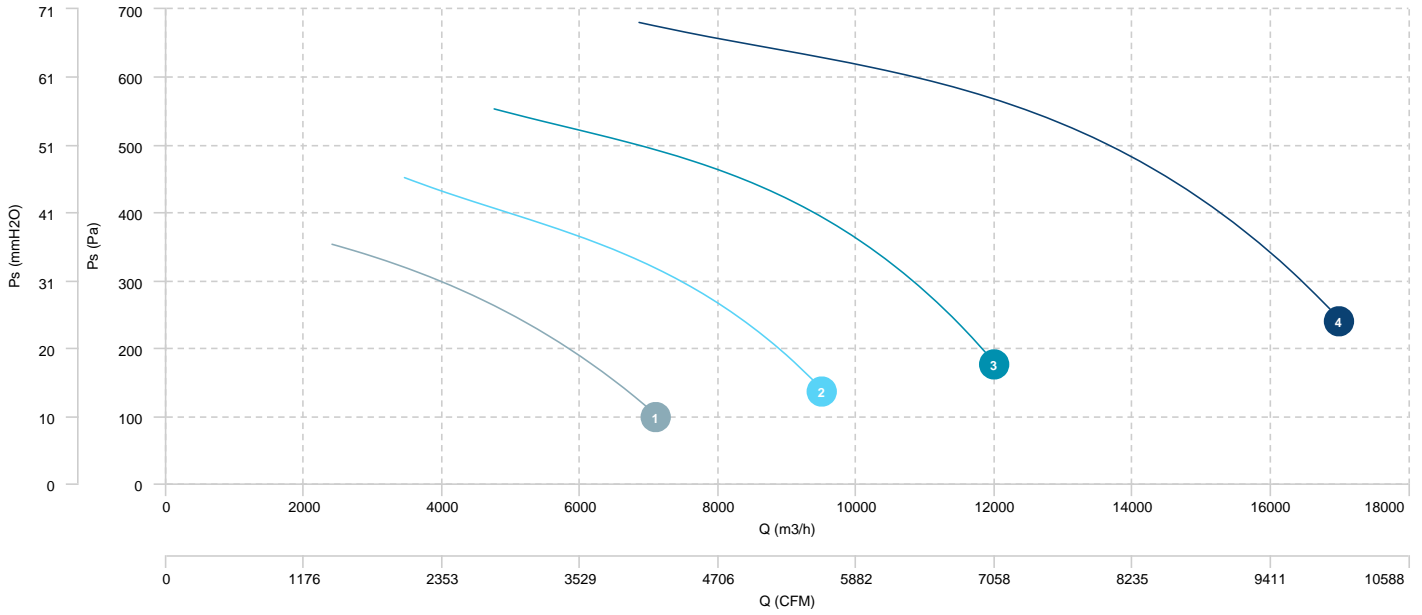


AIR FLOW - ABSORBED POWER



- 1 MBR 50/16 T6 0,75kW
- 2 MBR 56/18 T6 1,5kW
- 3 MBR 63/20 T6 1,5kW
- 4 MBR 71/22 T6 3kW

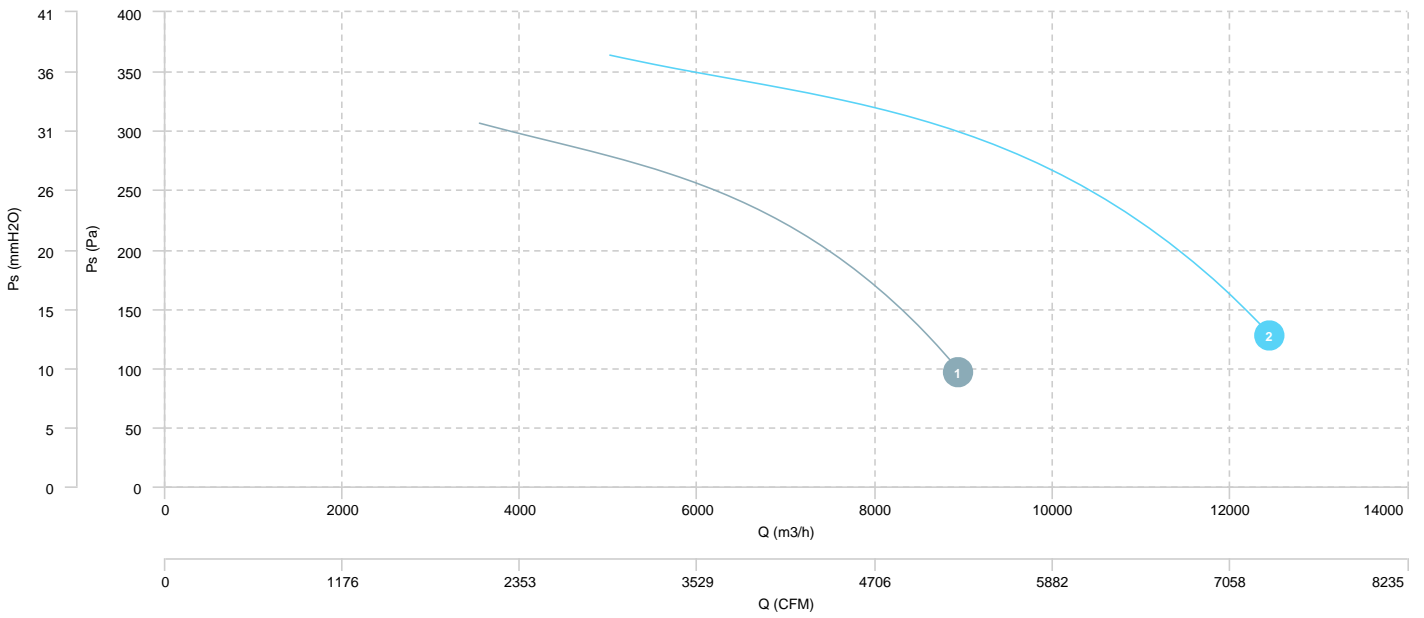
AIR FLOW - PRESSURE



1 MBR 63/20 T8 1,1kW

2 MBR 71/22 T8 1,5kW

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
MBR 31/10 T2 1,1kW	Inlet	65	78	78	91	86	86	86	79	94
MBR 35/11 T2 2,2kW	Inlet	72	79	77	89	87	93	92	79	97
MBR 40/12 T2 3kW	Inlet	68	83	81	93	90	94	96	83	100

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
MBR 40/12 T4 0,75kW	Inlet	56	70	76	79	79	80	70	59	85
MBR 45/14 T4 1,1kW	Inlet	59	72	78	83	80	83	78	64	88
MBR 50/16 T4 1,5kW	Inlet	64	74	82	84	83	85	76	66	90
MBR 56/18 T4 3kW	Inlet	69	78	91	87	90	91	85	71	96
MBR 63/20 T4 5,5kW	Inlet	80	85	91	93	91	88	81	73	97
MBR 71/22 T4 7,5kW	Inlet	83	84	93	96	96	99	95	82	103

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
MBR 50/16 T6 0,75kW	Inlet	53	65	72	77	73	69	62	54	80
MBR 56/18 T6 1,5kW	Inlet	61	69	81	83	80	81	71	60	87
MBR 63/20 T6 1,5kW	Inlet	69	70	82	82	81	83	73	63	88
MBR 71/22 T6 3kW	Inlet	73	73	87	86	90	90	79	68	94

Sound / 8 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
MBR 63/20 T8 1,1kW	Inlet	64	70	77	76	77	74	66	57	82
MBR 71/22 T8 1,5kW	Inlet	68	73	76	85	81	80	70	59	87

erp data

ERP	
Fan type	Centrifugal fan backward blades with casing
Installation category	A
Efficiency category	Static
The fan has to be installed with FSC	No

ERP / 4 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
MBR 63/20 T4 5,5kW	5,50	69,86	73,15	10.998,54	1.095,33	4,85	1440	1,00