

MBPN ATEX



ATEX MEDIUM PRESSURE WITH BACKWARD IMPELLER AND PLASTIC CONSTRUCTION

MANUFACTURING FEATURES:

- PE-el moulded housing.
- Backward impeller with self-cleaning system in PP.
- Motor support made of rolled steel sheet with polyester powder finishing coat.
- Stainless steel nuts and bolts.
- Standard asynchronous squirrel-cage motor, IP-55, class F insulation. Standard voltages 230/400V 50Hz for motors until 4kW and 400/690V 50Hz for upper motors

- 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

APPLICATIONS:

Designed for inline installation, they are suitable for:

- Corrosive air transport.
- Chemical and petrochemical industry.
- Laboratories and gas cabinets.
- General ventilation in closed environments classified as ATEX zone 2.
- Maximum temperature of transported air: If it is clean air 70°C, other depends on the gas (see table in documentation)

UNDER REQUEST:

- Single phase motors (up to 1,1Kw).
- Fans for special voltages.
- 2 speed motors.
- Stainless steel motor support.

Accessories



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 kg	Connect. diagram
510704536XD	MBPN 45 T2 7,5kW ATEX	2910	14,1	7,50	13.000	88	72	1

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					
510705054XD	MBPN 50 T4 2,2kW ATEX	1435	8,07	4,64	2,20	9.000	76	70	1
510705659XD	MBPN 56 T4 4kW ATEX	1440	14,5	8,32	4,00	13.000	76	110	1
510706361XD	MBPN 63 T4 5,5kW ATEX	1460	-	10,5	5,50	17.800	76	112	1

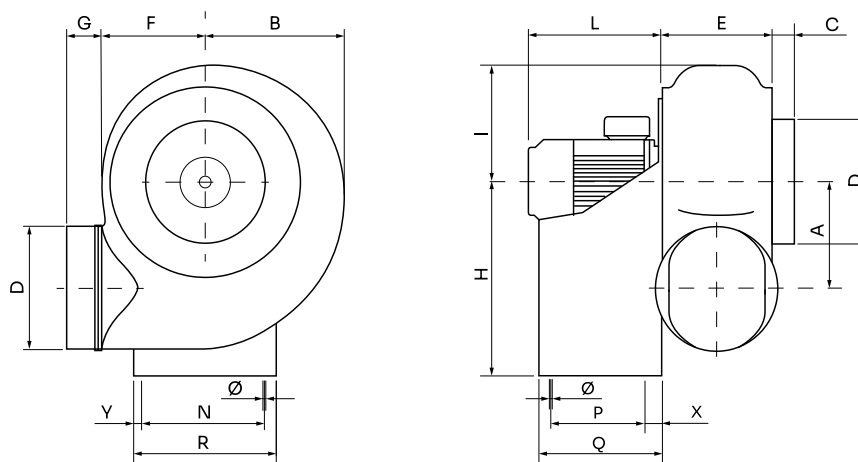
Three-phase motor / 6 poles

Code	Model	R.P.M.	Rated I. A		Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
			230V	400V					
510705071XD	MBPN 50 T6 0,55kW ATEX	900	3,00	1,8	0,55	6.000	67	62	1
510705673XD	MBPN 56 T6 1,1kW ATEX	925	4,83	2,78	1,10	8.500	66	87	1
510706378XD	MBPN 63 T6 2,2kW ATEX	965	10,3	5,94	2,20	11.500	66	102	1
510708087XD	MBPN 80 T6 7,5kW ATEX	965	-	15,2	7,50	15.000	67	390	1

Notes:

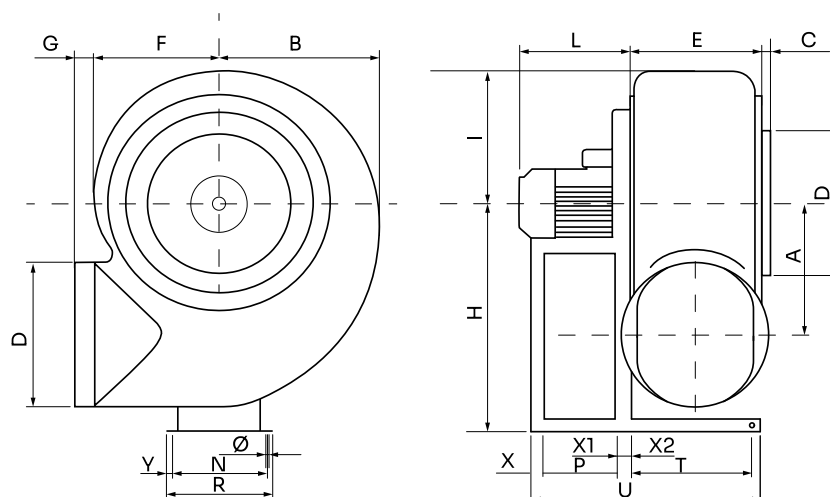
** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



Model	A	B	C	D	E	F	G	H	I
MBPN 45 T2 7,5kW ATEX	324	400	40	355	287	295	55	550	330

Model	L	N	P	Q	R	X	Y	Ø
MBPN 45 T2 7,5kW ATEX	415	370	270	340	410	40	20	11

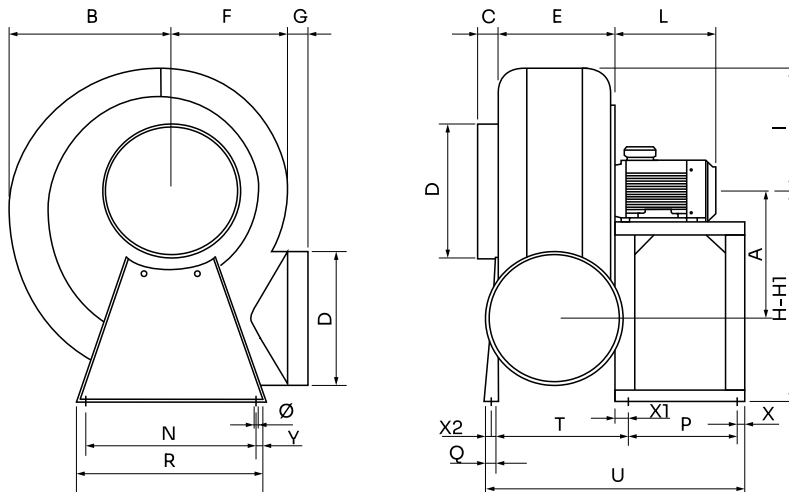


Model	A	B	C	D	E	F	G	H	I
MBPN 50 T4 2,2kW ATEX	360	460	50	400	355	355	80	630	395
MBPN 50 T6 0,55kW ATEX	360	460	50	400	355	355	80	630	395
MBPN 56 T4 4kW ATEX	410	490	50	450	365	380	80	710	410
MBPN 56 T6 1,1kW ATEX	410	490	50	450	365	380	80	710	410

Model	A	B	C	D	E	F	G	H	I
MBPN 63 T4 5,5kW ATEX	445	610	50	500	415	420	80	800	505
MBPN 63 T6 2,2kW ATEX	445	610	50	500	415	420	80	800	505

Model	L	N	P	T	U	X	X1	X2	Y
MBPN 50 T4 2,2kW ATEX	300	289	197	335	636	25	30	15	18
MBPN 50 T6 0,55kW ATEX	250	289	197	335	636	25	30	15	18
MBPN 56 T4 4kW ATEX	340	289	237	335	696	25	40	15	18
MBPN 56 T6 1,1kW ATEX	330	289	237	335	696	25	40	15	18
MBPN 63 T4 5,5kW ATEX	420	337	237	400	741	25	40	15	18
MBPN 63 T6 2,2kW ATEX	340	337	237	400	741	25	40	15	18

Model	Ø
MBPN 50 T4 2,2kW ATEX	14
MBPN 50 T6 0,55kW ATEX	14
MBPN 56 T4 4kW ATEX	14
MBPN 56 T6 1,1kW ATEX	14
MBPN 63 T4 5,5kW ATEX	14
MBPN 63 T6 2,2kW ATEX	14



Model	A	B	C	D	E	F	G	H	H1
MBPN 80 T6 7,5kW ATEX	665	815	105	700	590	590	100	1100	950

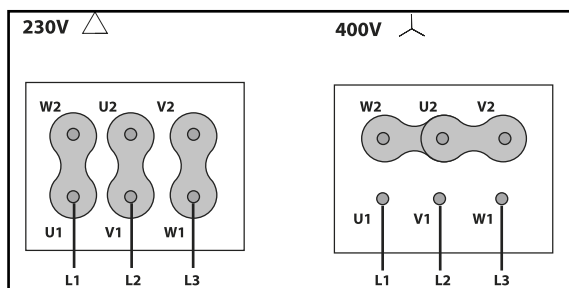
Model	I	L	N	P	Q	R	T	U	X
MBPN 80 T6 7,5kW ATEX	640	510	862	551	60	940	690	1319	40

Model	X1	X2	Y	Ø
MBPN 80 T6 7,5kW ATEX	60	30	40	20

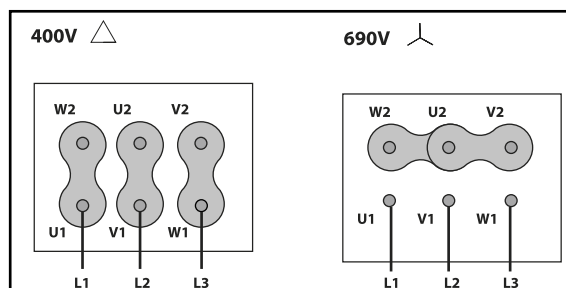
Wiring diagram

Wiring diagram N° 1

230/400V



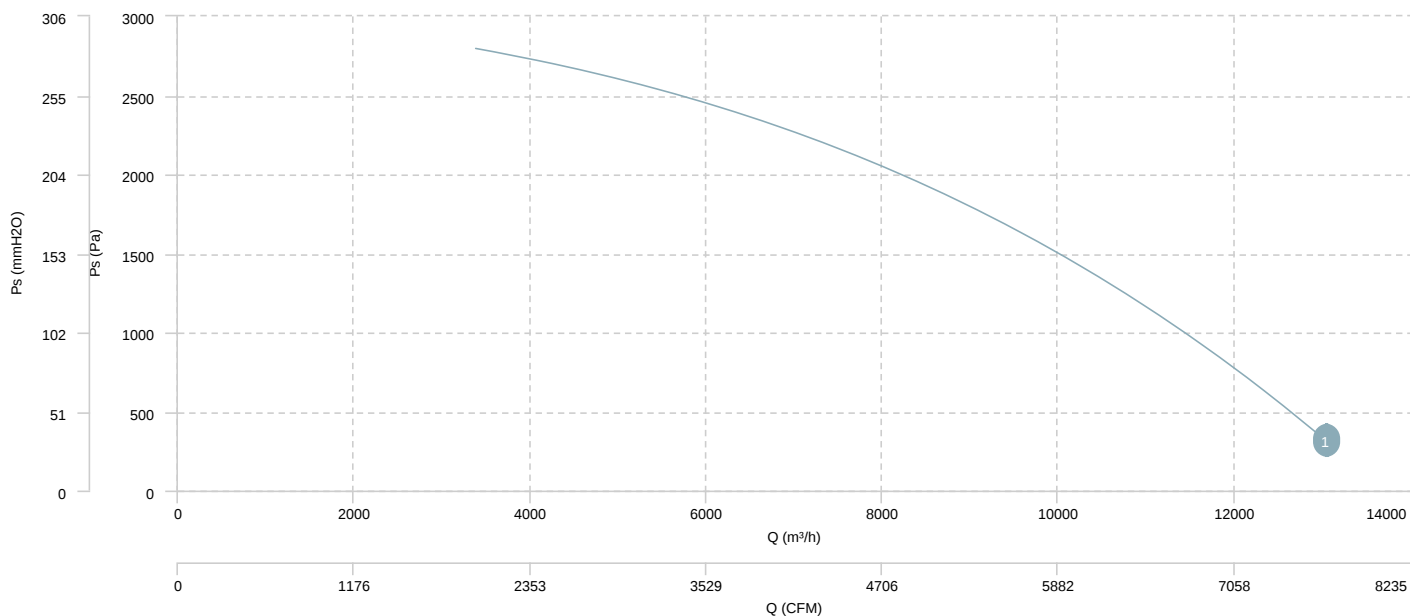
400/690V



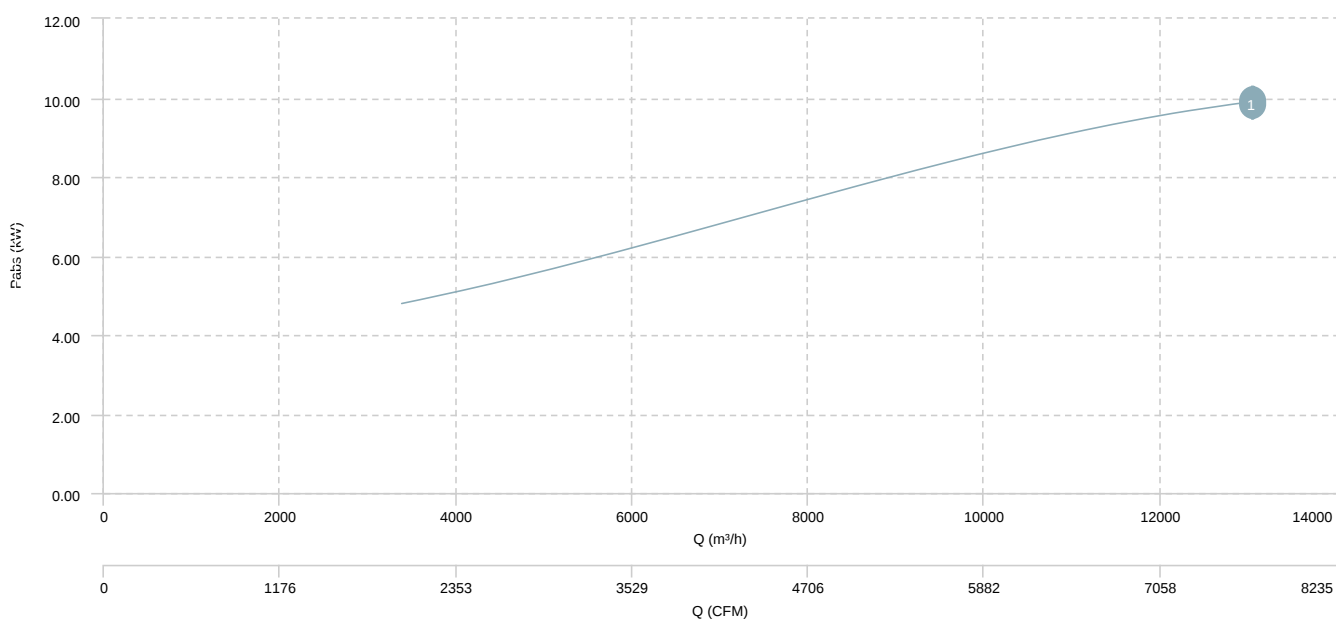
CHARACTERISCTIC CURVE

1 MBPN 45 T2 7,5kW ATEX

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER

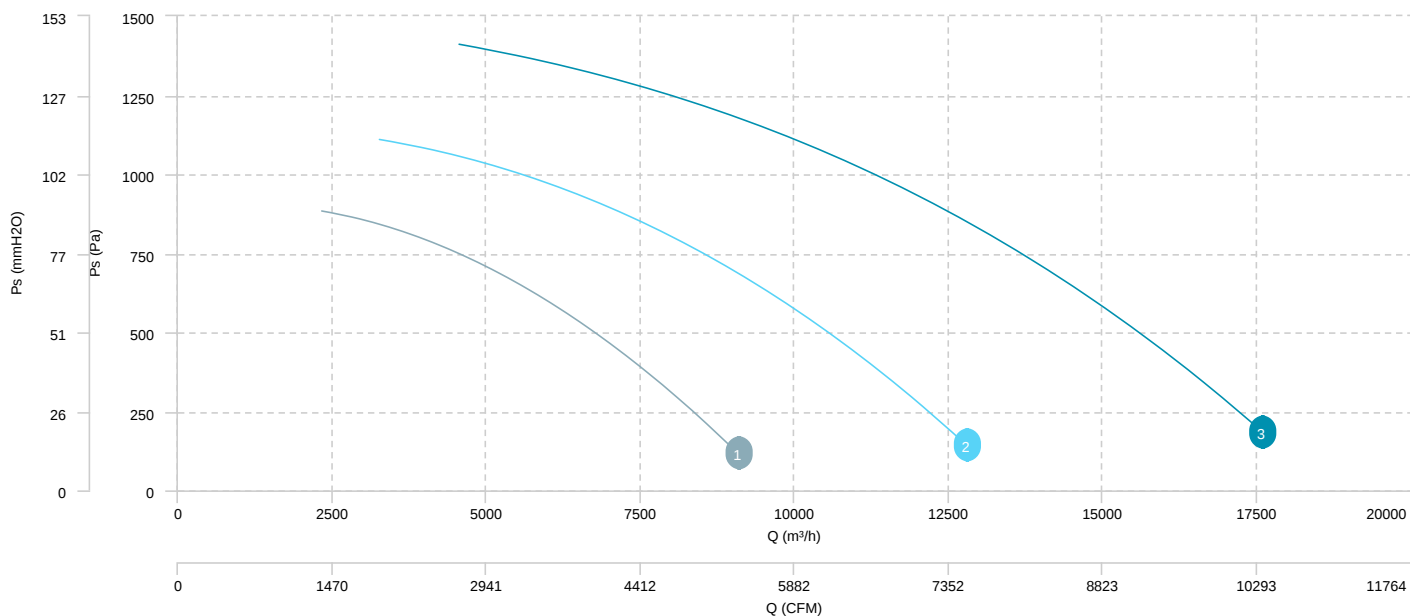


1 MBPN 50 T4 2,2kW ATEX

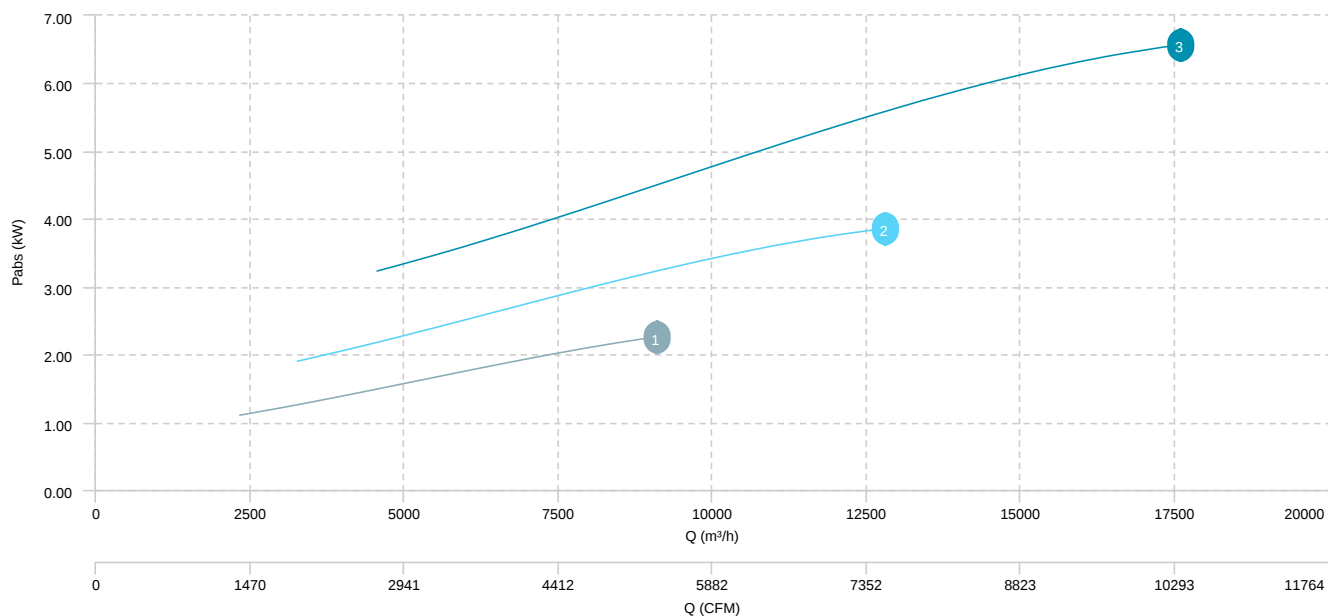
2 MBPN 56 T4 4kW ATEX

3 MBPN 63 T4 5,5kW ATEX

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED POWER



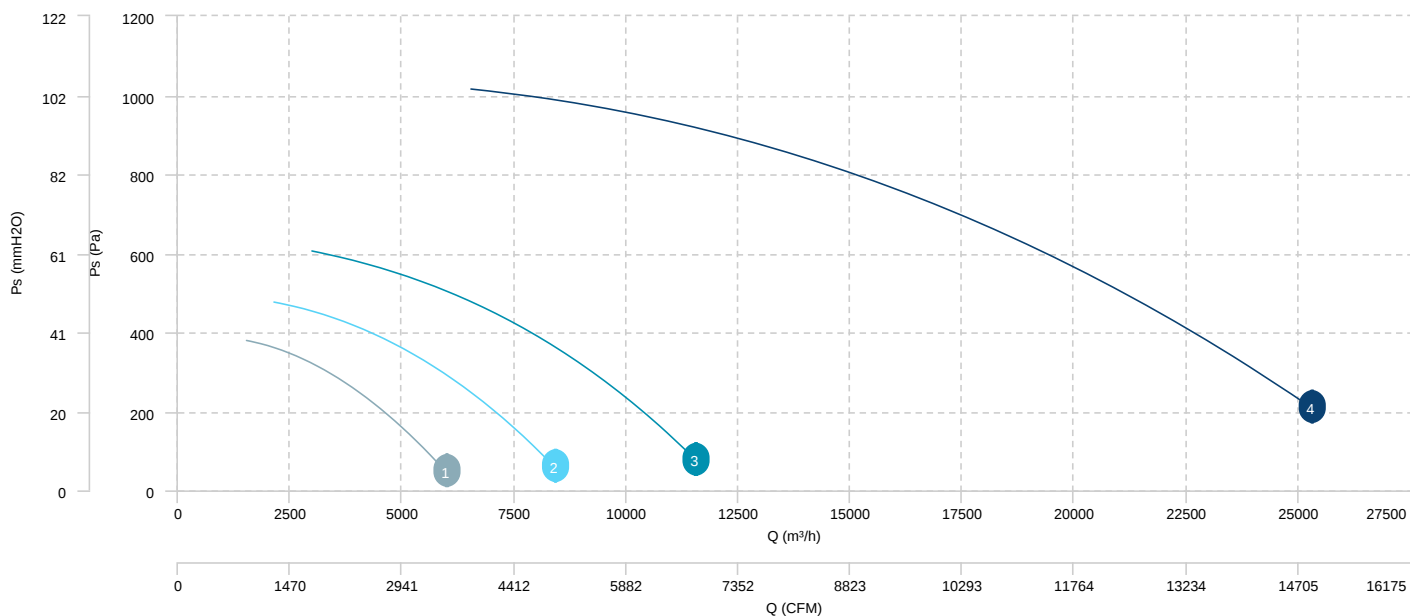
1 MBPN 50 T6 0,55kW ATEX

2 MBPN 56 T6 1,1kW ATEX

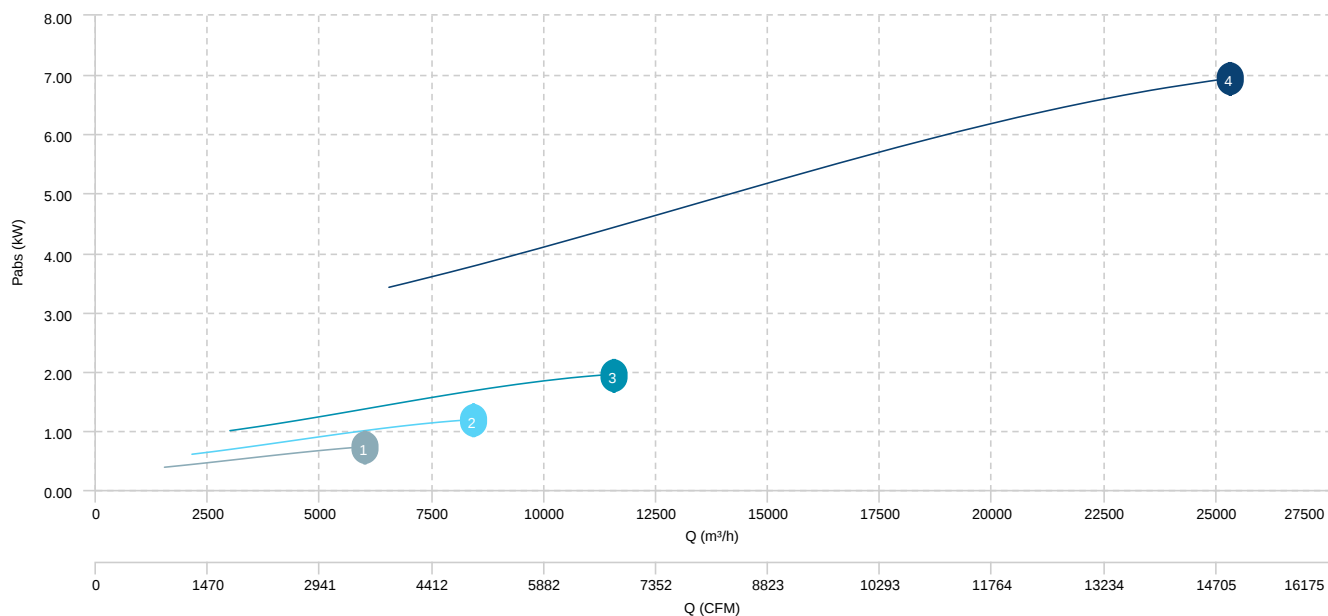
3 MBPN 63 T6 2,2kW ATEX

4 MBPN 80 T6 7,5kW ATEX

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
MBPN 45 T2 7,5kW ATEX	Inlet	86	98	103	110	109	105	97	87	114

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
MBPN 50 T4 2,2kW ATEX	Inlet	74	86	95	95	97	94	85	75	102
MBPN 56 T4 4kW ATEX	Inlet	74	86	94	95	97	93	85	75	102
MBPN 63 T4 5,5kW ATEX	Inlet	74	86	94	95	97	93	85	75	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
MBPN 50 T6 0,55kW ATEX	Inlet	65	77	85	86	88	84	76	66	93
MBPN 56 T6 1,1kW ATEX	Inlet	64	76	85	85	88	84	76	65	92
MBPN 63 T6 2,2kW ATEX	Inlet	64	76	85	85	87	84	75	65	92
MBPN 80 T6 7,5kW ATEX	Inlet	66	76	85	86	88	84	76	74	93