

AAZB ATEX



HIGH PRESSURE ATEX FAN WITH SIMPLE INLET RADIAL, CURVED AND OPEN BLADES IMPELLER

MANUFACTURING FEATURES:

- Fan made of Fe360 sheet. The fan paint finish is based on a Qualicoat polyester powder coating stoved at 200°C, with an average film thickness of 70 microns. Average heat resistance of coating is 180°C with peaks of 200°C.
- Fully welded housing.
- High efficiency simple inlet radial, curved and open blades impeller made of Fe360 sheet statically and dynamically balanced. Impellers are painted with polyester primer that resists temperatures up to 300°C.
- ATEX standard asynchronous motor. ATEX certified according to the zone, squirrel-cage motor with IP-55 protection and class F insulation. Manufactured with standard voltages: 230/400V 50Hz for three phase motors up to 4kW and 400/690V 50Hz for higher powers
- It allows adjusting the orientation locally from models 400 to 630. Models sizes from 710 to 1000 size the orientation can be modified if the fan is without frontal support.

- 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:

- Industrial applications, extraction or injection of air.
- Cooling of machines and parts.
- Clean and dusty air transport.
- Exhaust after filters, separators and cyclones.
- Pneumatic transport.
- Working temperature: ambient from -20°C to 40°C, transported air according to the ATEX clasification.

UNDER REQUEST

- Fans for 60Hz and special voltages.
- Inox 304 (normal or electropolished finish)
- Inox 316 (normal or electropolished finish)
- Split casing (for big sizes)
- Drain plug.
- Frontal foot

Accessories



AB



AC



AVR



AVS



BA-400



**BADS
ATEX**



**BIDS
ATEX**



EI



FS



**INT
ATEX**



JE 45



RA



RI



SFC

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
507804027XN	AAZB/P 400 T2 2,2kW ATEX	2840	5,4	2,20	1.370	64	60	1
507804529XN	AAZB/P 450 T2 3kW ATEX	2900	7,3	3,00	1.620	66	70	1
507804532XN	AAZB/P 450 T2 4kW ATEX	2910	9,2	4,00	2.160	68	78	1
507805034XN	AAZB/P 500 T2 5,5kW ATEX	2910	11,46	5,50	2.520	69	106	1
507805036XN	AAZB/P 500 T2 7,5kW ATEX	2910	14,1	7,50	3.240	71	107	1
507805636XN	AAZB/P 560 T2 7,5kW ATEX	2910	14,1	7,50	2.880	71	130	1
507805621XN	AAZB/P 560 T2 11kW ATEX	2940	21,4	11,00	3.960	73	164	1
507806324XN	AAZB/P 630 T2 15kW ATEX	2935	27,4	15,00	4.320	73	182	1
507806326XN	AAZB/P 630 T2 18,5kW ATEX	2940	34,4	18,50	5.400	74	194	1
507807130XN	AAZB/P 710 T2 30kW ATEX	2955	56,6	30,00	7.200	77	445	1
507807131XN	AAZB/P 710 T2 37kW ATEX	2955	66,7	37,00	7.920	77	447	1
507808033XN	AAZB/P 800 T2 45kW ATEX	2960	78,00	45,00	7.920	88	603	1
507808035XN	AAZB/P 800 T2 55kW ATEX	2960	95,00	55,00	10.600	107	661	1
507807128XN	AAZB/PR 710 T2 22kW ATEX	2940	39,8	22,00	6.120	75	311	1
507808031XN	AAZB/PR 800 T2 37kW ATEX	2955	66,7	37,00	7.200	89	520	1

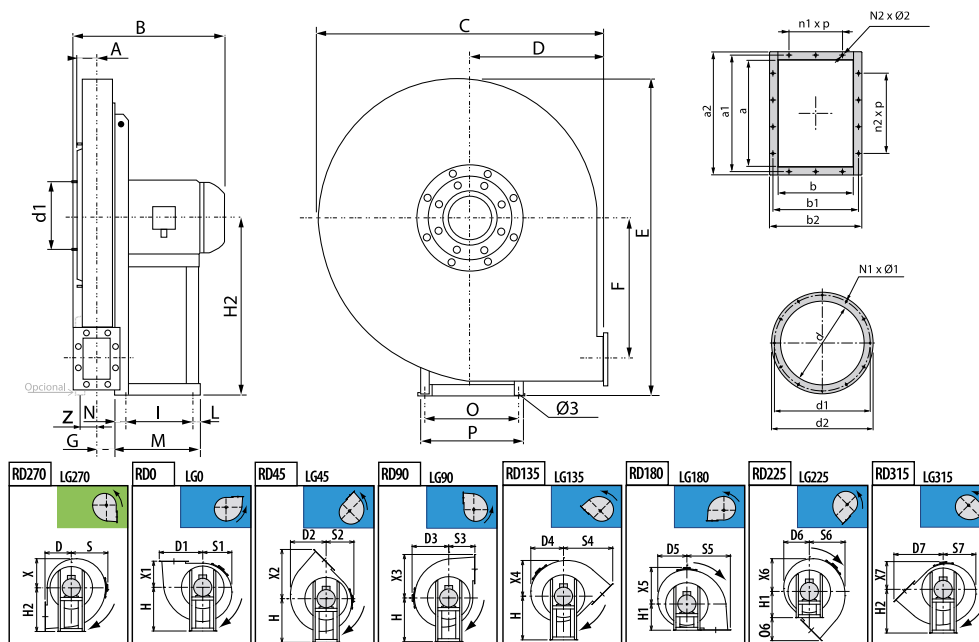
Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A 400V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
507808049XN	AAZB/P 800 T4 11kW ATEX	1460	20,9	11,00	6.120	68	276	1
507809052XN	AAZB/P 900 T4 15kW ATEX	1465	29,8	15,00	7.920	70	406	1
507810055XN	AAZB/P 1000 T4 22kW ATEX	1465	40,1	22,00	10.600	72	577	1
507808063XN	AAZB/PR 800 T4 7,5kW ATEX	1448	15,6	7,50	6.120	69	250	1
507809049XN	AAZB/PR 900 T4 11kW ATEX	1460	20,9	11,00	7.200	69	393	1
507810053XN	AAZB/PR 1000 T4 18,5kW ATEX	1470	35,6	18,50	9.000	71	562	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	D1	D2	D3	D4	D5
AAZB/P 400 T2 2,2kW ATEX	71	437	620	280	356	314	340	302	284
AAZB/P 450 T2 3kW ATEX	78	482	675	300	393	350	375	335	313
AAZB/P 450 T2 4kW ATEX	78	503	675	300	393	350	375	335	313
AAZB/P 500 T2 5,5kW ATEX	86	560	745	335	436	386	410	370	345
AAZB/P 500 T2 7,5kW ATEX	86	560	745	335	436	386	410	370	345
AAZB/P 560 T2 7,5kW ATEX	95	579	835	375	488	438	460	418	393
AAZB/P 560 T2 11kW ATEX	95	684	835	375	488	438	460	418	393
AAZB/P 630 T2 15kW ATEX	105	703	940	425	545	493	515	472	440
AAZB/P 630 T2 18,5kW ATEX	105	703	940	425	545	493	515	472	440
AAZB/P 710 T2 30kW ATEX	115	917	1045	475	610	547	570	522	493
AAZB/P 710 T2 37kW ATEX	115	917	1045	475	610	547	570	522	493
AAZB/P 800 T2 45kW ATEX	127	984	1170	530	682	622	640	592	555
AAZB/P 800 T2 55kW ATEX	127	1092	1170	530	682	622	640	592	555
AAZB/P 800 T4 11kW ATEX	127	753	1170	530	682	622	640	592	555
AAZB/P 900 T4 15kW ATEX	140	780	1315	600	763	696	715	668	628
AAZB/P 1000 T4 22kW ATEX	163	944	1460	670	849	805	790	765	691
AAZB/PR 710 T2 22kW ATEX	115	809	1045	475	610	547	570	522	493
AAZB/PR 800 T2 37kW ATEX	127	942	1170	530	682	622	640	592	555
AAZB/PR 800 T4 7,5kW ATEX	127	648	1170	530	682	622	640	592	555
AAZB/PR 900 T4 11kW ATEX	140	780	1315	600	763	696	715	668	628
AAZB/PR 1000 T4 18,5kW ATEX	163	893	1460	670	849	805	790	765	691

Model	D6	D7	E	F	G	H	H1	H2	I
AAZB/P 400 T2 2,2kW ATEX	293	450	659	238	63	375	280	375	133
AAZB/P 450 T2 3kW ATEX	319	490	713	265	70	400	300	400	197
AAZB/P 450 T2 4kW ATEX	319	490	713	265	70	400	300	400	197
AAZB/P 500 T2 5,5kW ATEX	350	546	795	297	78	450	335	450	237
AAZB/P 500 T2 7,5kW ATEX	350	546	795	297	78	450	335	450	237
AAZB/P 560 T2 7,5kW ATEX	392	613	893	337	88	500	375	500	237
AAZB/P 560 T2 11kW ATEX	392	613	893	337	88	500	375	500	337
AAZB/P 630 T2 15kW ATEX	438	688	1000	381	98	560	425	560	337
AAZB/P 630 T2 18,5kW ATEX	438	688	1000	381	98	560	425	560	337
AAZB/P 710 T2 30kW ATEX	489	767	1123	426	108	630	475	630	381
AAZB/P 710 T2 37kW ATEX	489	767	1123	426	108	630	475	630	381
AAZB/P 800 T2 45kW ATEX	545	854	1265	481	121	710	530	710	421
AAZB/P 800 T2 55kW ATEX	545	854	1265	481	121	710	530	710	501
AAZB/P 800 T4 11kW ATEX	545	854	1265	481	121	710	530	710	337
AAZB/P 900 T4 15kW ATEX	617	963	1428	542	134	800	600	800	337
AAZB/P 1000 T4 22kW ATEX	640	1074	1591	607	150	900	670	900	357
AAZB/PR 710 T2 22kW ATEX	489	767	1123	426	108	630	475	630	357
AAZB/PR 800 T2 37kW ATEX	545	854	1265	481	121	710	530	710	381
AAZB/PR 800 T4 7,5kW ATEX	545	854	1265	481	121	710	530	710	238
AAZB/PR 900 T4 11kW ATEX	617	963	1428	542	134	800	600	800	337
AAZB/PR 1000 T4 18,5kW ATEX	640	1074	1591	607	150	900	670	900	357

Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	S
AAZB/P 400 T2 2,2kW ATEX	60	251	58	8xM6x20	6x12	234	170	260	340
AAZB/P 450 T2 3kW ATEX	54	285	34	8xM6x20	6x12	289	190	214	375
AAZB/P 450 T2 4kW ATEX	54	285	34	8xM6x20	6x12	289	190	214	375
AAZB/P 500 T2 5,5kW ATEX	64	345	44	8xM6x20	8x12	337	211	372	410
AAZB/P 500 T2 7,5kW ATEX	64	345	44	8xM6x20	8x12	337	211	372	410
AAZB/P 560 T2 7,5kW ATEX	64	345	44	8xM8x25	8x12	337	238	372	460
AAZB/P 560 T2 11kW ATEX	54	446	55	8xM8x25	8x12	395	238	440	460
AAZB/P 630 T2 15kW ATEX	54	446	55	8xM8x25	10x12	395	263	440	515
AAZB/P 630 T2 18,5kW ATEX	54	446	55	8xM8x25	10x12	395	263	440	515
AAZB/P 710 T2 30kW ATEX	33	460	70	8xM8x25	10x12	434	292	488	570
AAZB/P 710 T2 37kW ATEX	33	460	70	8xM8x25	10x12	434	292	488	570
AAZB/P 800 T2 45kW ATEX	39	540	80	8xM8x25	10x12	556	324	616	640
AAZB/P 800 T2 55kW ATEX	39	600	60	8xM8x25	10x12	604	324	690	640
AAZB/P 800 T4 11kW ATEX	49	436	50	8xM8x25	10x12	395	324	440	640
AAZB/P 900 T4 15kW ATEX	49	436	50	12xM8x25	10x12	395	363	440	715
AAZB/P 1000 T4 22kW ATEX	33	460	70	12xM8x25	14x12	434	404	488	790

Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	S
AAZB/PR 710 T2 22kW ATEX	33	460	70	8xM8x25	10x12	434	292	488	570
AAZB/PR 800 T2 37kW ATEX	39	500	80	8xM8x25	10x12	506	324	568	640
AAZB/PR 800 T4 7,5kW ATEX	59	336	40	8xM8x25	10x12	337	324	372	640
AAZB/PR 900 T4 11kW ATEX	49	436	50	12xM8x25	10x12	395	363	440	715
AAZB/PR 1000 T4 18,5kW ATEX	33	460	70	12xM8x25	14x12	434	404	488	790

Model	S1	S2	S3	S4	S5	S6	S7	X	X1
AAZB/P 400 T2 2,2kW ATEX	284	293	280	450	356	314	302	284	280
AAZB/P 450 T2 3kW ATEX	313	319	300	490	393	350	335	313	300
AAZB/P 450 T2 4kW ATEX	313	319	300	490	393	350	335	313	300
AAZB/P 500 T2 5,5kW ATEX	345	350	335	546	436	386	370	345	335
AAZB/P 500 T2 7,5kW ATEX	345	350	335	546	436	386	370	345	335
AAZB/P 560 T2 7,5kW ATEX	393	392	375	613	488	438	418	393	375
AAZB/P 560 T2 11kW ATEX	393	392	375	613	488	438	418	393	375
AAZB/P 630 T2 15kW ATEX	440	438	425	688	545	493	472	440	425
AAZB/P 630 T2 18,5kW ATEX	440	438	425	688	545	493	472	440	425
AAZB/P 710 T2 30kW ATEX	493	489	475	767	610	547	522	493	475
AAZB/P 710 T2 37kW ATEX	493	489	475	767	610	547	522	493	475
AAZB/P 800 T2 45kW ATEX	555	545	530	854	682	622	592	555	530
AAZB/P 800 T2 55kW ATEX	555	545	530	854	682	622	592	555	530
AAZB/P 800 T4 11kW ATEX	555	545	530	854	682	622	592	555	530
AAZB/P 900 T4 15kW ATEX	628	617	600	963	763	696	668	628	600
AAZB/P 1000 T4 22kW ATEX	691	640	670	1074	849	805	765	691	670
AAZB/PR 710 T2 22kW ATEX	493	489	475	767	610	547	522	493	475
AAZB/PR 800 T2 37kW ATEX	555	545	530	854	682	622	592	555	530
AAZB/PR 800 T4 7,5kW ATEX	555	545	530	854	682	622	592	555	530
AAZB/PR 900 T4 11kW ATEX	628	617	600	963	763	696	668	628	600
AAZB/PR 1000 T4 18,5kW ATEX	691	640	670	1074	849	805	765	691	670

Model	X2	X3	X4	X5	X6	X7	Z	a	a1
AAZB/P 400 T2 2,2kW ATEX	450	356	314	340	302	293	76	166	200
AAZB/P 450 T2 3kW ATEX	490	393	350	375	335	319	86	185	219
AAZB/P 450 T2 4kW ATEX	490	393	350	375	335	319	86	185	219
AAZB/P 500 T2 5,5kW ATEX	546	436	386	410	370	350	94	207	241
AAZB/P 500 T2 7,5kW ATEX	546	436	386	410	370	350	94	207	241
AAZB/P 560 T2 7,5kW ATEX	613	488	438	460	418	392	106	231	265
AAZB/P 560 T2 11kW ATEX	613	488	438	460	418	392	106	231	265
AAZB/P 630 T2 15kW ATEX	688	545	493	515	472	438	116	258	292
AAZB/P 630 T2 18,5kW ATEX	688	545	493	515	472	438	116	258	292

Model	X2	X3	X4	X5	X6	X7	Z	a	a1
AAZB/P 710 T2 30kW ATEX	767	610	547	570	522	489	133	288	332
AAZB/P 710 T2 37kW ATEX	767	610	547	570	522	489	133	288	332
AAZB/P 800 T2 45kW ATEX	854	682	622	640	592	545	145	322	366
AAZB/P 800 T2 55kW ATEX	854	682	622	640	592	545	145	322	366
AAZB/P 800 T4 11kW ATEX	854	682	622	640	592	545	145	322	366
AAZB/P 900 T4 15kW ATEX	963	763	696	715	668	617	163	361	405
AAZB/P 1000 T4 22kW ATEX	1074	849	805	790	765	640	194	404	448
AAZB/PR 710 T2 22kW ATEX	767	610	547	570	522	489	133	288	332
AAZB/PR 800 T2 37kW ATEX	854	682	622	640	592	545	145	322	366
AAZB/PR 800 T4 7,5kW ATEX	854	682	622	640	592	545	145	322	366
AAZB/PR 900 T4 11kW ATEX	963	763	696	715	668	617	163	361	405
AAZB/PR 1000 T4 18,5kW ATEX	1074	849	805	790	765	640	194	404	448

Model	a2	b	b1	b2	d	d1	d2	n1xp	n2xp
AAZB/P 400 T2 2,2kW ATEX	236	117	151	187	185	219	255	-	1x112
AAZB/P 450 T2 3kW ATEX	255	131	165	201	205	241	275	-	1x112
AAZB/P 450 T2 4kW ATEX	255	131	165	201	205	241	275	-	1x112
AAZB/P 500 T2 5,5kW ATEX	277	148	182	218	228	265	298	1x112	1x112
AAZB/P 500 T2 7,5kW ATEX	277	148	182	218	228	265	298	1x112	1x112
AAZB/P 560 T2 7,5kW ATEX	301	166	200	236	255	292	325	1x112	1x112
AAZB/P 560 T2 11kW ATEX	301	166	200	236	255	292	325	1x112	1x112
AAZB/P 630 T2 15kW ATEX	328	185	219	255	285	332	370	1x112	2x112
AAZB/P 630 T2 18,5kW ATEX	328	185	219	255	285	332	370	1x112	2x112
AAZB/P 710 T2 30kW ATEX	368	205	249	285	320	366	405	1x125	2x125
AAZB/P 710 T2 37kW ATEX	368	205	249	285	320	366	405	1x125	2x125
AAZB/P 800 T2 45kW ATEX	402	229	273	309	360	405	445	1x125	2x125
AAZB/P 800 T2 55kW ATEX	402	229	273	309	360	405	445	1x125	2x125
AAZB/P 800 T4 11kW ATEX	402	229	273	309	360	405	445	1x125	2x125
AAZB/P 900 T4 15kW ATEX	441	256	300	336	405	448	490	1x125	2x125
AAZB/P 1000 T4 22kW ATEX	484	288	332	368	455	497	540	2x125	3x125
AAZB/PR 710 T2 22kW ATEX	368	205	249	285	320	366	405	1x125	2x125
AAZB/PR 800 T2 37kW ATEX	402	229	273	309	360	405	445	1x125	2x125
AAZB/PR 800 T4 7,5kW ATEX	402	229	273	309	360	405	445	1x125	2x125
AAZB/PR 900 T4 11kW ATEX	441	256	300	336	405	448	490	1x125	2x125
AAZB/PR 1000 T4 18,5kW ATEX	484	288	332	368	455	497	540	2x125	3x125

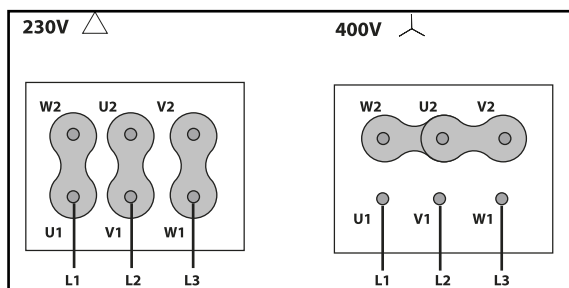
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AAZB/P 400 T2 2,2kW ATEX	10
AAZB/P 450 T2 3kW ATEX	12
AAZB/P 450 T2 4kW ATEX	12

Model	Ø3
AAZB/P 500 T2 5,5kW ATEX	12
AAZB/P 500 T2 7,5kW ATEX	12
AAZB/P 560 T2 7,5kW ATEX	12
AAZB/P 560 T2 11kW ATEX	14
AAZB/P 630 T2 15kW ATEX	14
AAZB/P 630 T2 18,5kW ATEX	14
AAZB/P 710 T2 30kW ATEX	17
AAZB/P 710 T2 37kW ATEX	17
AAZB/P 800 T2 45kW ATEX	19
AAZB/P 800 T2 55kW ATEX	19
AAZB/P 800 T4 11kW ATEX	14
AAZB/P 900 T4 15kW ATEX	14
AAZB/P 1000 T4 22kW ATEX	17
AAZB/PR 710 T2 22kW ATEX	17
AAZB/PR 800 T2 37kW ATEX	19
AAZB/PR 800 T4 7,5kW ATEX	12
AAZB/PR 900 T4 11kW ATEX	14
AAZB/PR 1000 T4 18,5kW ATEX	17

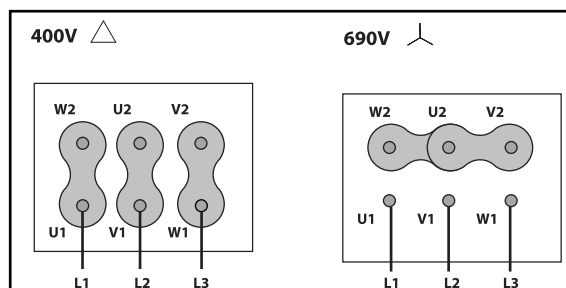
Wiring diagram

Wiring diagram Nº 1

230/400V



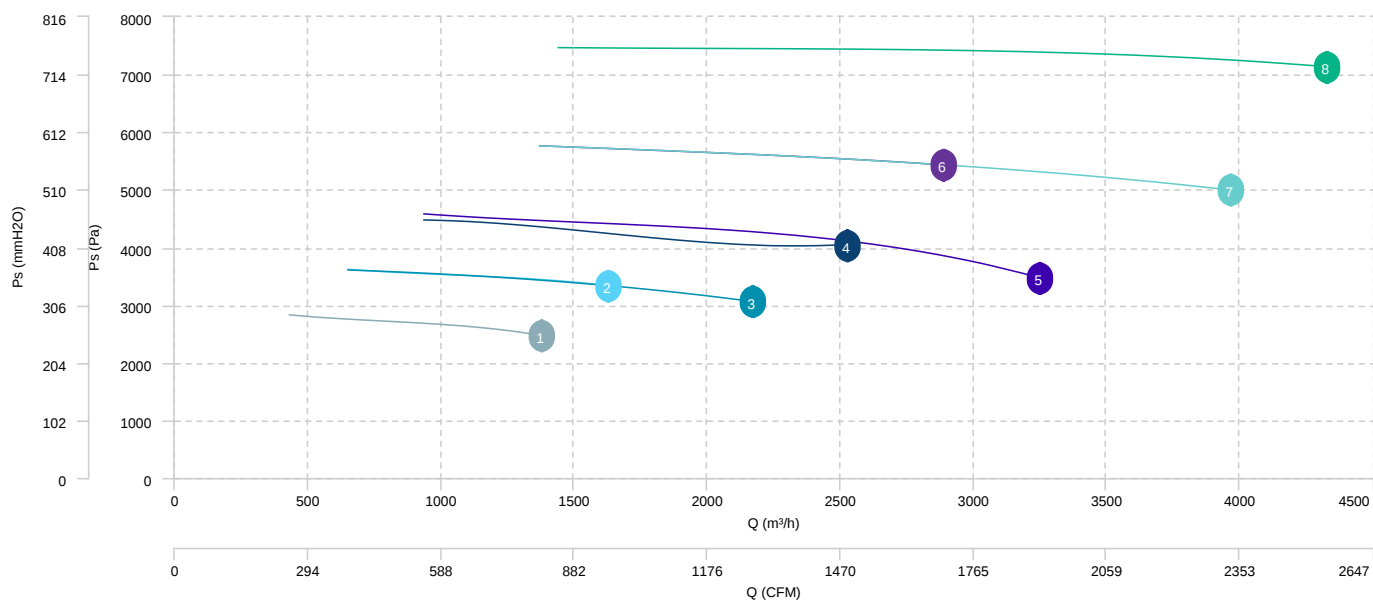
400/690V



CHARACTERISCTIC CURVE

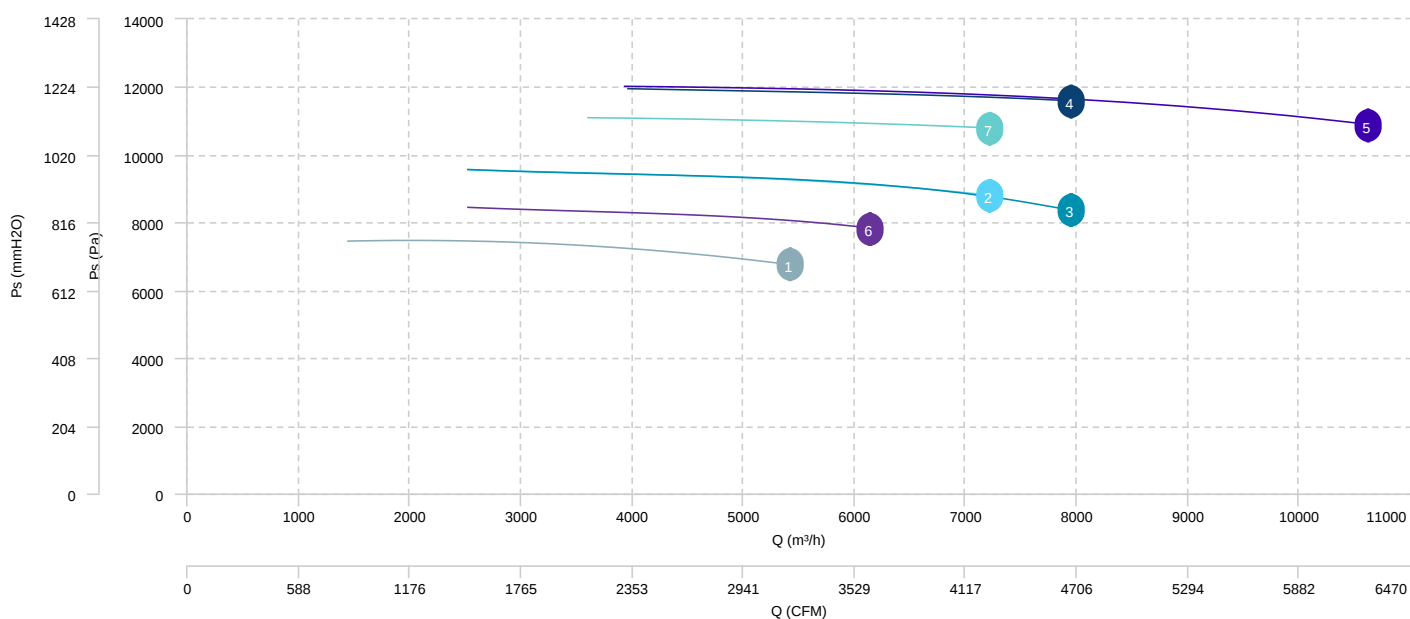
1	AAZB/P 400 T2 2,2kW ATEX	2	AAZB/P 450 T2 3kW ATEX	3	AAZB/P 450 T2 4kW ATEX	4	AAZB/P 500 T2 5,5kW ATEX
5	AAZB/P 500 T2 7,5kW ATEX	6	AAZB/P 560 T2 7,5kW ATEX	7	AAZB/P 560 T2 11kW ATEX	8	AAZB/P 630 T2 15kW ATEX

AIR FLOW - PRESSURE

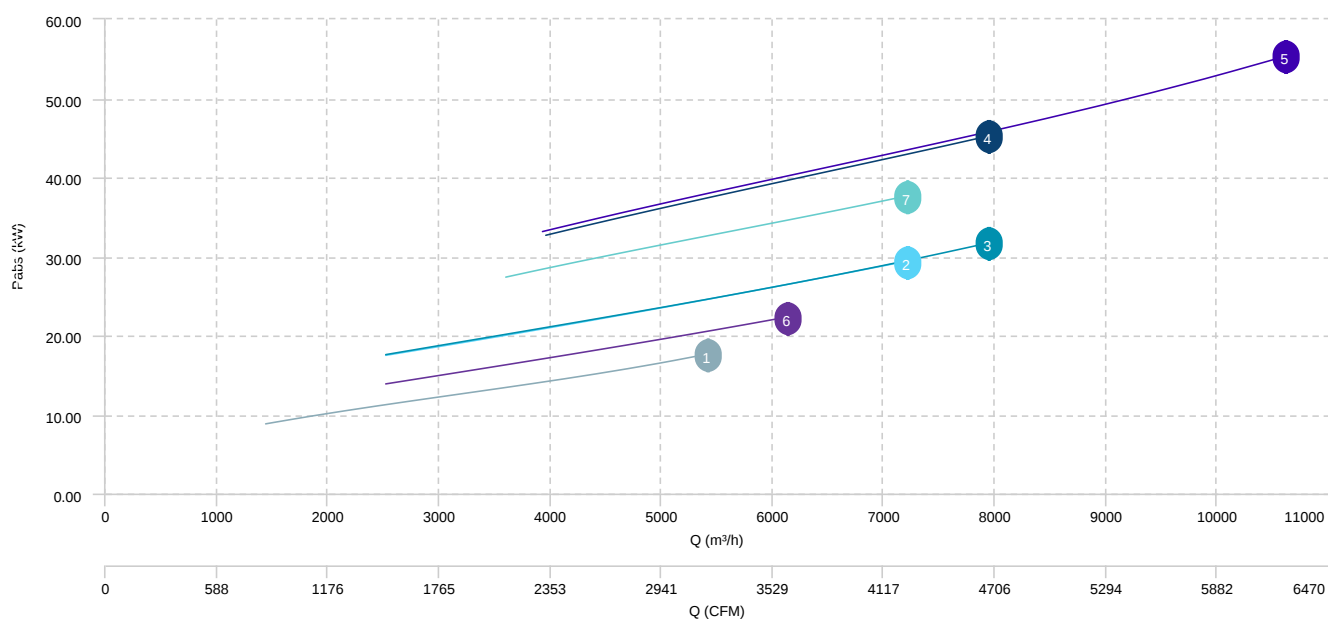


1	AAZB/P 630 T2 18,5kW ATEX	2	AAZB/P 710 T2 30kW ATEX	3	AAZB/P 710 T2 37kW ATEX	4	AAZB/P 800 T2 45kW ATEX
5	AAZB/P 800 T2 55kW ATEX	6	AAZB/PR 710 T2 22kW ATEX	7	AAZB/PR 800 T2 37kW ATEX		

AIR FLOW - PRESSURE

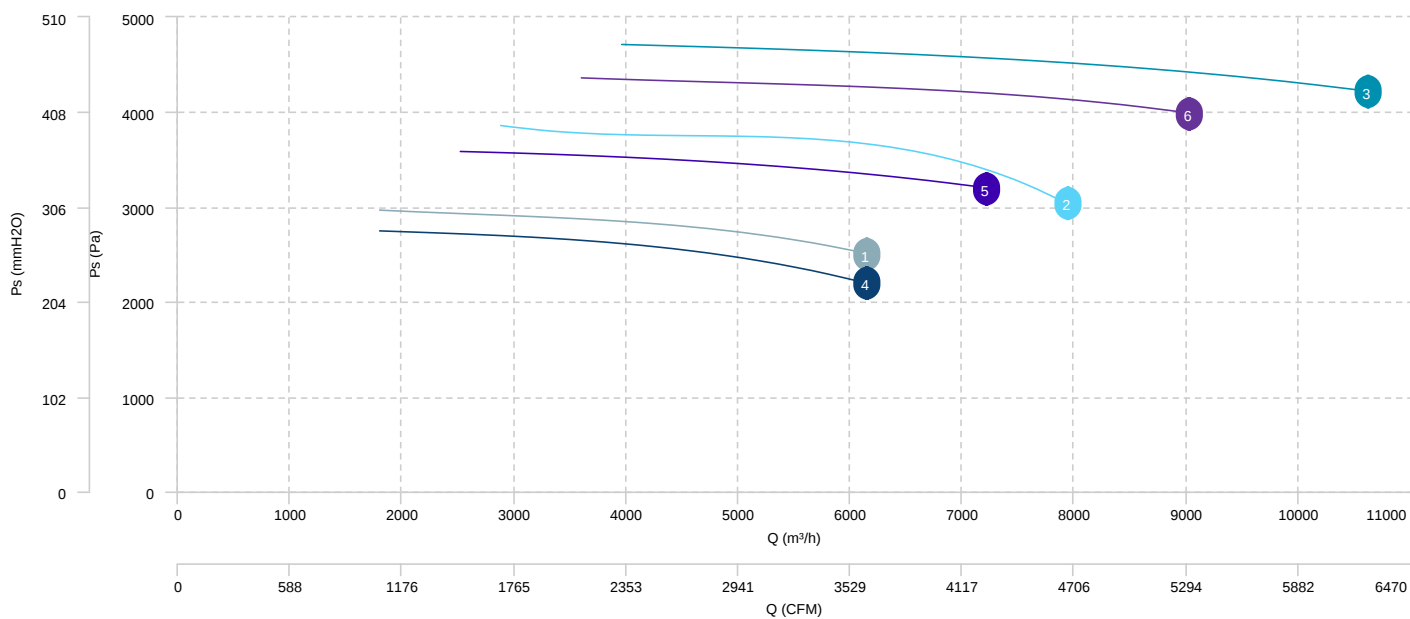


AIR FLOW - ABSORBED POWER



1	AAZB/P 800 T4 11kW ATEX	2	AAZB/P 900 T4 15kW ATEX	3	AAZB/P 1000 T4 22kW ATEX	4	AAZB/PR 800 T4 7,5kW ATEX
5	AAZB/PR 900 T4 11kW ATEX	6	AAZB/PR 1000 T4 18,5kW ATEX				

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
AAZB/P 400 T2 2,2kW ATEX	Inlet	62	74	81	85	86	81	75	65	90
AAZB/P 450 T2 3kW ATEX	Inlet	64	76	83	87	88	83	77	67	92
AAZB/P 450 T2 4kW ATEX	Inlet	66	78	85	89	90	85	79	69	94
AAZB/P 500 T2 5,5kW ATEX	Inlet	68	80	86	90	91	87	80	70	95
AAZB/P 500 T2 7,5kW ATEX	Inlet	70	82	88	92	93	88	82	72	97
AAZB/P 560 T2 7,5kW ATEX	Inlet	70	82	88	92	93	89	82	72	97
AAZB/P 560 T2 11kW ATEX	Inlet	71	83	90	94	95	90	84	74	99
AAZB/P 630 T2 15kW ATEX	Inlet	72	84	90	94	95	91	84	74	99
AAZB/P 630 T2 18,5kW ATEX	Inlet	73	85	91	95	96	91	85	75	100
AAZB/P 710 T2 30kW ATEX	Inlet	75	87	94	98	99	94	87	78	103
AAZB/P 710 T2 37kW ATEX	Inlet	76	88	94	98	99	95	88	78	103
AAZB/P 800 T2 45kW ATEX	Inlet	87	99	105	109	110	106	99	89	114
AAZB/P 800 T2 55kW ATEX	Inlet	106	118	124	128	129	124	118	108	133
AAZB/PR 710 T2 22kW ATEX	Inlet	74	86	92	96	97	93	86	76	101
AAZB/PR 800 T2 37kW ATEX	Inlet	88	100	106	110	111	106	100	90	115

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
AAZB/P 800 T4 11kW ATEX	Inlet	66	78	84	89	89	85	78	69	94
AAZB/P 900 T4 15kW ATEX	Inlet	68	80	86	91	91	87	80	71	96
AAZB/P 1000 T4 22kW ATEX	Inlet	71	83	89	93	94	89	83	73	98
AAZB/PR 800 T4 7,5kW ATEX	Inlet	67	79	85	89	90	86	79	69	95
AAZB/PR 900 T4 11kW ATEX	Inlet	67	79	86	90	91	86	80	70	95
AAZB/PR 1000 T4 18,5kW ATEX	Inlet	69	81	88	92	93	88	82	72	97