

AAZC ATEX



HIGH PRESSURE ATEX FAN WITH SIMPLE INLET STRAIGHT AND OPEN BLADE 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 straight blade 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 is fixed.
- 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 classification.

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
508104032XN	AAZC/R 400 T2 4kW ATEX	2910	9,2	4,00	3.600	75	80	1
508104536XN	AAZC/R 450 T2 7,5kW ATEX	2910	14,1	7,50	5.400	77	104	1
508105021XN	AAZC/R 500 T2 11kW ATEX	2940	21,4	11,00	6.480	78	174	1
508105024XN	AAZC/R 500 T2 15kW ATEX	2935	27,4	15,00	7.920	83	178	1
508105628XN	AAZC/R 560 T2 22kW ATEX	2940	39,8	22,00	10.800	84	271	1
508104034XN	AAZC 400 T2 5,5kW ATEX	2910	11,46	5,50	4.680	77	92	1
508104521XN	AAZC 450 T2 11kW ATEX	2940	21,4	11,00	5.760	76	148	1
508105026XN	AAZC 500 T2 18,5kW ATEX	2940	34,4	18,50	9.360	86	191	1
508105630XN	AAZC 560 T2 30kW ATEX	2955	56,6	30,00	12.600	137	366	1

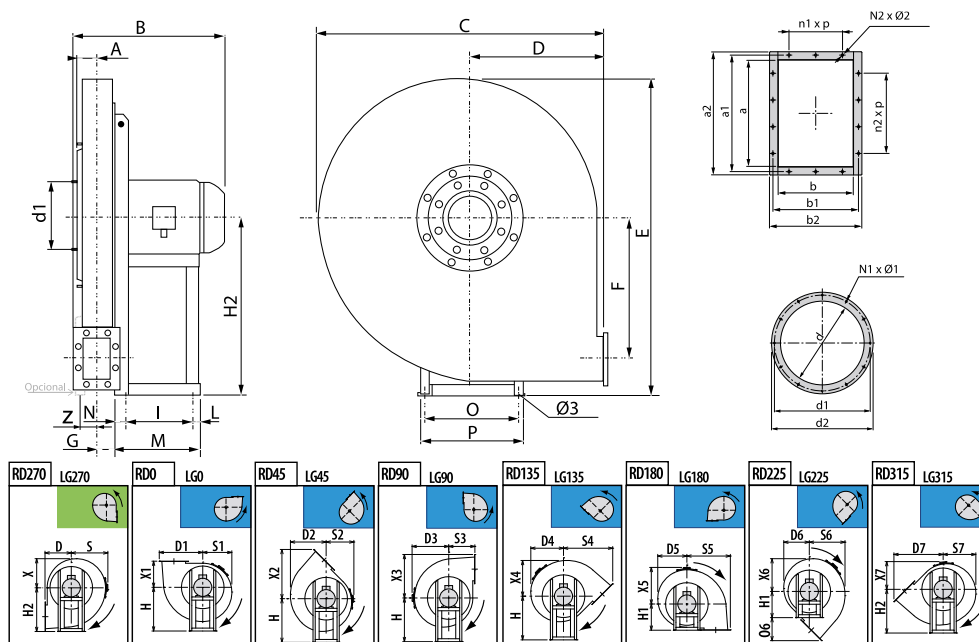
Three-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. A 400V	Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
508106361XN	AAZC/R 630 T4 5,5kW ATEX	1455	11,5	5,50	9.360	77	194	1
508107149XN	AAZC/R 710 T4 11kW ATEX	1460	20,9	11,00	12.600	77	332	1
508108055XN	AAZC/R 800 T4 22kW ATEX	1465	40,1	22,00	19.800	82	512	1
508109058XN	AAZC/R 900 T4 37kW ATEX	1470	69,2	37,00	28.800	87	640	1
508110060XN	AAZC/R 1000 T4 45kW ATEX	1475	80,7	45,00	36.000	87	924	1
508105659XN	AAZC 560 T4 4kW ATEX	1450	9,1	4,00	6.480	70	154	1
508106363XN	AAZC 630 T4 7,5kW ATEX	1448	15,6	7,50	10.800	77	195	1
508107152XN	AAZC 710 T4 15kW ATEX	1465	29,8	15,00	16.200	78	345	1
508108057XN	AAZC 800 T4 30kW ATEX	1475	56,3	30,00	19.800	80	614	1
508109060XN	AAZC 900 T4 45kW ATEX	1475	80,7	45,00	32.400	89	665	1
508110062XN	AAZC 1000 T4 55kW ATEX	1475	97,1	55,00	36.000	86	1011	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
AAZC/R 400 T2 4kW ATEX	105	557	685	285	483	387	400	353	315
AAZC/R 450 T2 7,5kW ATEX	115	622	765	320	541	435	445	398	354
AAZC/R 500 T2 11kW ATEX	131	751	862	360	597	490	502	450	400
AAZC/R 500 T2 15kW ATEX	131	751	862	360	597	490	502	450	400
AAZC 400 T2 5,5kW ATEX	105	597	685	285	483	387	400	353	315
AAZC 450 T2 11kW ATEX	115	727	765	320	541	435	445	398	354
AAZC 500 T2 18,5kW ATEX	131	751	862	360	597	490	502	450	400

Model	D6	D7	E	F	G	H	H1	H2	I
AAZC/R 400 T2 4kW ATEX	306	543	815	319	97	500	285	500	197
AAZC/R 450 T2 7,5kW ATEX	342	609	914	357	107	560	320	560	237
AAZC/R 500 T2 11kW ATEX	380	676	1000	396	119	600	360	600	337
AAZC/R 500 T2 15kW ATEX	380	676	1000	396	119	600	360	600	337
AAZC 400 T2 5,5kW ATEX	306	543	815	319	97	500	285	500	237
AAZC 450 T2 11kW ATEX	342	609	914	357	107	560	320	560	337
AAZC 500 T2 18,5kW ATEX	380	676	1000	396	119	600	360	600	337

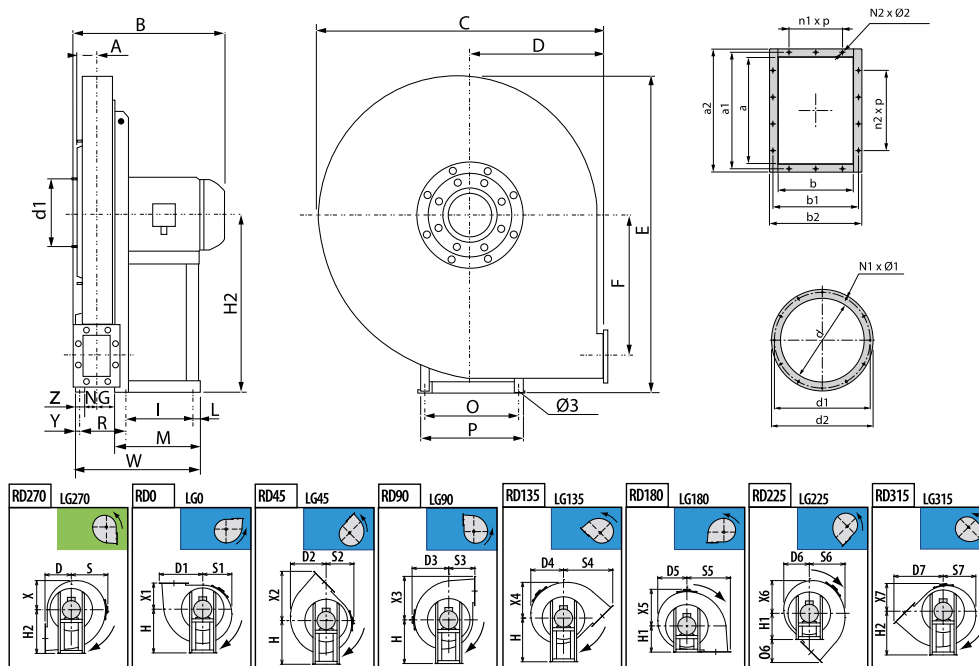
Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	S
AAZC/R 400 T2 4kW ATEX	54	285	34	8xM8x25	10x12	289	258	324	400
AAZC/R 450 T2 7,5kW ATEX	64	345	44	8xM8x25	10x12	337	289	372	445
AAZC/R 500 T2 11kW ATEX	54	446	55	8xM8x25	10x12	395	316	440	502
AAZC/R 500 T2 15kW ATEX	54	446	55	8xM8x25	10x12	395	316	440	502

Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	S
AAZC 400 T2 5,5kW ATEX	64	345	44	8xM8x25	10x12	337	258	372	400
AAZC 450 T2 11kW ATEX	54	446	55	8xM8x25	10x12	395	289	440	445
AAZC 500 T2 18,5kW ATEX	54	446	55	8xM8x25	10x12	395	316	440	502

Model	S1	S2	S3	S4	S5	S6	S7	X	X1
AAZC/R 400 T2 4kW ATEX	315	306	285	543	483	387	353	315	285
AAZC/R 450 T2 7,5kW ATEX	354	342	320	609	541	435	398	354	320
AAZC/R 500 T2 11kW ATEX	400	380	360	676	597	490	450	400	360
AAZC/R 500 T2 15kW ATEX	400	380	360	676	597	490	450	400	360
AAZC 400 T2 5,5kW ATEX	315	306	285	543	483	387	353	315	285
AAZC 450 T2 11kW ATEX	354	342	320	609	541	435	398	354	320
AAZC 500 T2 18,5kW ATEX	400	380	360	676	597	490	450	400	360

Model	X2	X3	X4	X5	X6	X7	Z	a	a1
AAZC/R 400 T2 4kW ATEX	543	483	387	400	353	306	123	185	292
AAZC/R 450 T2 7,5kW ATEX	609	541	435	445	398	342	133	205	332
AAZC/R 500 T2 11kW ATEX	676	597	490	502	450	380	145	229	366
AAZC/R 500 T2 15kW ATEX	676	597	490	502	450	380	145	229	366
AAZC 400 T2 5,5kW ATEX	543	483	387	400	353	306	123	185	292
AAZC 450 T2 11kW ATEX	609	541	435	445	398	342	133	205	332
AAZC 500 T2 18,5kW ATEX	676	597	490	502	450	380	145	229	366

Model	a2	b1	b2	d	d1	d2	n1xp	n2xp	Ø3
AAZC/R 400 T2 4kW ATEX	328	219	255	255	292	325	1x112	2x112	12
AAZC/R 450 T2 7,5kW ATEX	368	249	285	285	332	370	1x125	2x125	12
AAZC/R 500 T2 11kW ATEX	402	273	309	320	366	405	1x125	2x125	14
AAZC/R 500 T2 15kW ATEX	402	273	309	320	366	405	1x125	2x125	14
AAZC 400 T2 5,5kW ATEX	328	219	255	255	292	325	1x112	2x112	12
AAZC 450 T2 11kW ATEX	368	249	285	285	332	370	1x125	2x125	14
AAZC 500 T2 18,5kW ATEX	402	273	309	320	366	405	1x125	2x125	14



Model	#REF!	A	B	C	D	D1	D2	D3	D4
AAZC/R 560 T2 22kW ATEX	778	142	873	970	400	657	555	570	542
AAZC/R 630 T4 5,5kW ATEX	686	158	718	1080	450	732	619	630	603
AAZC/R 710 T4 11kW ATEX	818	185	860	1190	500	825	719	690	662
AAZC/R 800 T4 22kW ATEX	901	199	1050	1342	560	919	811	782	749
AAZC/R 900 T4 37kW ATEX	1024	221	1193	1500	630	1038	905	870	835
AAZC/R 1000 T4 45kW ATEX	1093	246	1262	1686	710	1160	1015	976	936
AAZC 560 T2 30kW ATEX	813	142	981	970	400	657	555	570	542
AAZC 560 T4 4kW ATEX	594	142	647	970	400	657	555	570	542
AAZC 630 T4 7,5kW ATEX	686	158	718	1080	450	732	619	630	603
AAZC 710 T4 15kW ATEX	818	185	860	1190	500	825	719	690	662
AAZC 800 T4 30kW ATEX	941	199	1107	1342	560	919	811	782	749
AAZC 900 T4 45kW ATEX	1024	221	1193	1500	630	1038	905	870	835
AAZC 1000 T4 55kW ATEX	1153	246	1364	1686	710	1160	1015	976	936

Model	D5	D6	D7	E	F	G	H	H1	H2
AAZC/R 560 T2 22kW ATEX	485	425	747	1155	436	133	670	400	670
AAZC/R 630 T4 5,5kW ATEX	540	476	836	1290	490	148	750	450	750
AAZC/R 710 T4 11kW ATEX	578	497	937	1428	558	161	670	500	850
AAZC/R 800 T4 22kW ATEX	672	562	1045	1622	625	180	755	560	950
AAZC/R 900 T4 37kW ATEX	721	633	1179	1781	703	202	850	630	1060
AAZC/R 1000 T4 45kW ATEX	813	718	1322	1993	791	226	950	710	1180
AAZC 560 T2 30kW ATEX	485	425	747	1155	436	133	670	400	670
AAZC 560 T4 4kW ATEX	485	425	747	1155	436	133	670	400	670

Model	D5	D6	D7	E	F	G	H	H1	H2
AAZC 630 T4 7,5kW ATEX	540	476	836	1290	490	148	750	450	750
AAZC 710 T4 15kW ATEX	578	497	937	1428	558	161	670	500	850
AAZC 800 T4 30kW ATEX	672	562	1045	1622	625	180	755	560	950
AAZC 900 T4 45kW ATEX	721	633	1179	1781	703	202	850	630	1060
AAZC 1000 T4 55kW ATEX	813	718	1322	1993	791	226	950	710	1180

Model	I	L	M	N	N1xØ1	N2xØ2	O	O6	P
AAZC/R 560 T2 22kW ATEX	357	38	465	128	8xM8x25	10x12	434	347	488
AAZC/R 630 T4 5,5kW ATEX	237	64	341	144	12xM8x25	14x12	337	386	372
AAZC/R 710 T4 11kW ATEX	316	60	436	161	12xM8x25	14x12	772	437	826
AAZC/R 800 T4 22kW ATEX	361	39	460	180	12xM8x25	14x12	862	485	926
AAZC/R 900 T4 37kW ATEX	441	39	540	202	12xM8x25	14x14	962	549	1026
AAZC/R 1000 T4 45kW ATEX	440	45	540	226	12xM10x30	14x14	1056	612	1128
AAZC 560 T2 30kW ATEX	381	39	500	128	8xM8x25	10x12	506	347	568
AAZC 560 T4 4kW ATEX	197	54	281	128	8xM8x25	10x12	289	347	324
AAZC 630 T4 7,5kW ATEX	237	64	341	144	12xM8x25	14x12	337	386	372
AAZC 710 T4 15kW ATEX	316	60	436	161	12xM8x25	14x12	772	437	826
AAZC 800 T4 30kW ATEX	401	39	500	180	12xM8x25	14x12	862	485	926
AAZC 900 T4 45kW ATEX	441	39	540	202	12xM8x25	14x14	962	549	1026
AAZC 1000 T4 55kW ATEX	500	45	600	226	12xM10x30	14x14	1056	612	1128

Model	S	S1	S2	S3	S4	S5	S6	S7	X
AAZC/R 560 T2 22kW ATEX	570	485	425	400	747	657	555	542	485
AAZC/R 630 T4 5,5kW ATEX	630	540	476	450	836	732	619	603	540
AAZC/R 710 T4 11kW ATEX	690	578	497	500	937	825	719	662	578
AAZC/R 800 T4 22kW ATEX	782	672	562	560	1045	919	811	749	672
AAZC/R 900 T4 37kW ATEX	870	721	633	630	1179	1038	905	835	721
AAZC/R 1000 T4 45kW ATEX	976	813	718	710	1322	1160	1015	936	813
AAZC 560 T2 30kW ATEX	570	485	425	400	747	657	555	542	485
AAZC 560 T4 4kW ATEX	570	485	425	400	747	657	555	542	485
AAZC 630 T4 7,5kW ATEX	630	540	476	450	836	732	619	603	540
AAZC 710 T4 15kW ATEX	690	578	497	500	937	825	719	662	578
AAZC 800 T4 30kW ATEX	782	672	562	560	1045	919	811	749	672

Model	S	S1	S2	S3	S4	S5	S6	S7	X
AAZC 900 T4 45kW ATEX	870	721	633	630	1179	1038	905	835	721
AAZC 1000 T4 55kW ATEX	976	813	718	710	1322	1160	1015	936	813

Model	X1	X2	X3	X4	X5	X6	X7	Z	a
AAZC/R 560 T2 22kW ATEX	400	747	657	555	570	542	425	53	256
AAZC/R 630 T4 5,5kW ATEX	450	836	732	619	630	603	476	53	288
AAZC/R 710 T4 11kW ATEX	500	937	825	719	690	662	497	60	322
AAZC/R 800 T4 22kW ATEX	560	1045	919	811	782	749	562	80	361
AAZC/R 900 T4 37kW ATEX	630	1179	1038	905	870	835	633	80	404
AAZC/R 1000 T4 45kW ATEX	710	1322	1160	1015	976	936	718	100	453
AAZC 560 T2 30kW ATEX	400	747	657	555	570	542	425	53	256
AAZC 560 T4 4kW ATEX	400	747	657	555	570	542	425	53	256
AAZC 630 T4 7,5kW ATEX	450	836	732	619	630	603	476	53	288
AAZC 710 T4 15kW ATEX	500	937	825	719	690	662	497	60	322
AAZC 800 T4 30kW ATEX	560	1045	919	811	782	749	562	80	361
AAZC 900 T4 45kW ATEX	630	1179	1038	905	870	835	633	80	404
AAZC 1000 T4 55kW ATEX	710	1322	1160	1015	976	936	718	100	453

Model	a1	a2	b1	b2	d	d1	d2	n1xp	n2xp
AAZC/R 560 T2 22kW ATEX	405	441	300	336	360	405	445	1x125	2x125
AAZC/R 630 T4 5,5kW ATEX	448	484	332	368	405	448	490	2x125	3x125
AAZC/R 710 T4 11kW ATEX	497	533	366	402	455	497	540	2x125	3x125
AAZC/R 800 T4 22kW ATEX	551	587	405	441	505	551	590	2x125	3x125
AAZC/R 900 T4 37kW ATEX	629	669	464	504	565	629	670	2x160	3x160
AAZC/R 1000 T4 45kW ATEX	698	738	513	553	635	698	735	2x160	3x160
AAZC 560 T2 30kW ATEX	405	441	300	336	360	405	445	1x125	2x125
AAZC 560 T4 4kW ATEX	405	441	300	336	360	405	445	1x125	2x125
AAZC 630 T4 7,5kW ATEX	448	484	332	368	405	448	490	2x125	3x125
AAZC 710 T4 15kW ATEX	497	533	366	402	455	497	540	2x125	3x125
AAZC 800 T4 30kW ATEX	551	587	405	441	505	551	590	2x125	3x125
AAZC 900 T4 45kW ATEX	629	669	464	504	565	629	670	2x160	3x160
AAZC 1000 T4 55kW ATEX	698	738	513	553	635	698	735	2x160	3x160

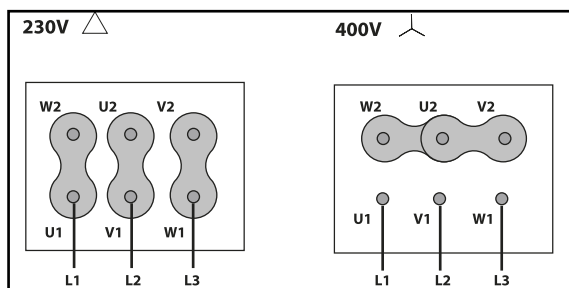
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AAZC/R 560 T2 22kW ATEX	18
AAZC/R 630 T4 5,5kW ATEX	12
AAZC/R 710 T4 11kW ATEX	20
AAZC/R 800 T4 22kW ATEX	20
AAZC/R 900 T4 37kW ATEX	20
AAZC/R 1000 T4 45kW ATEX	20
AAZC 560 T2 30kW ATEX	20

Model	Ø3
AAZC 560 T4 4kW ATEX	12
AAZC 630 T4 7,5kW ATEX	12
AAZC 710 T4 15kW ATEX	20
AAZC 800 T4 30kW ATEX	20
AAZC 900 T4 45kW ATEX	20
AAZC 1000 T4 55kW ATEX	20

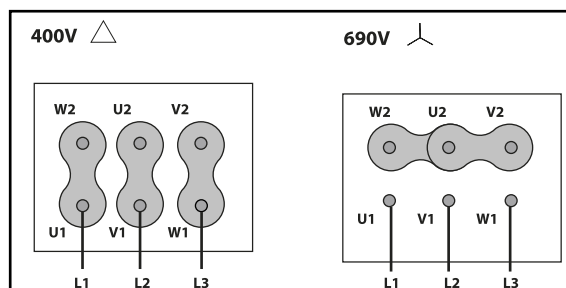
Wiring diagram

Wiring diagram N° 1

230/400V



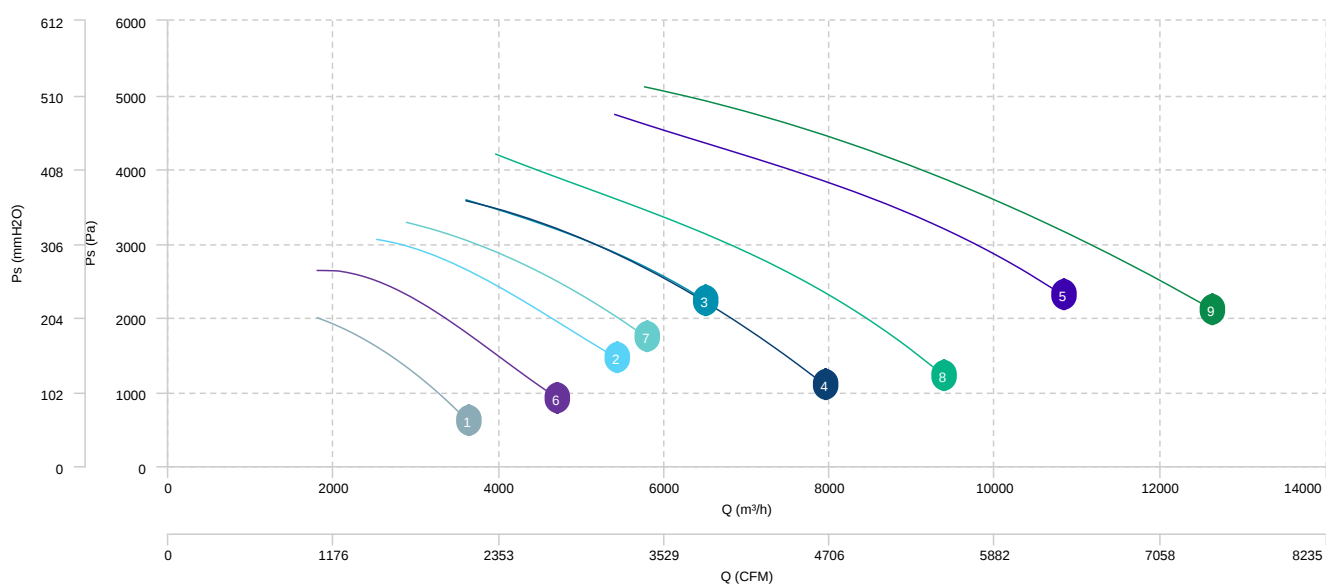
400/690V



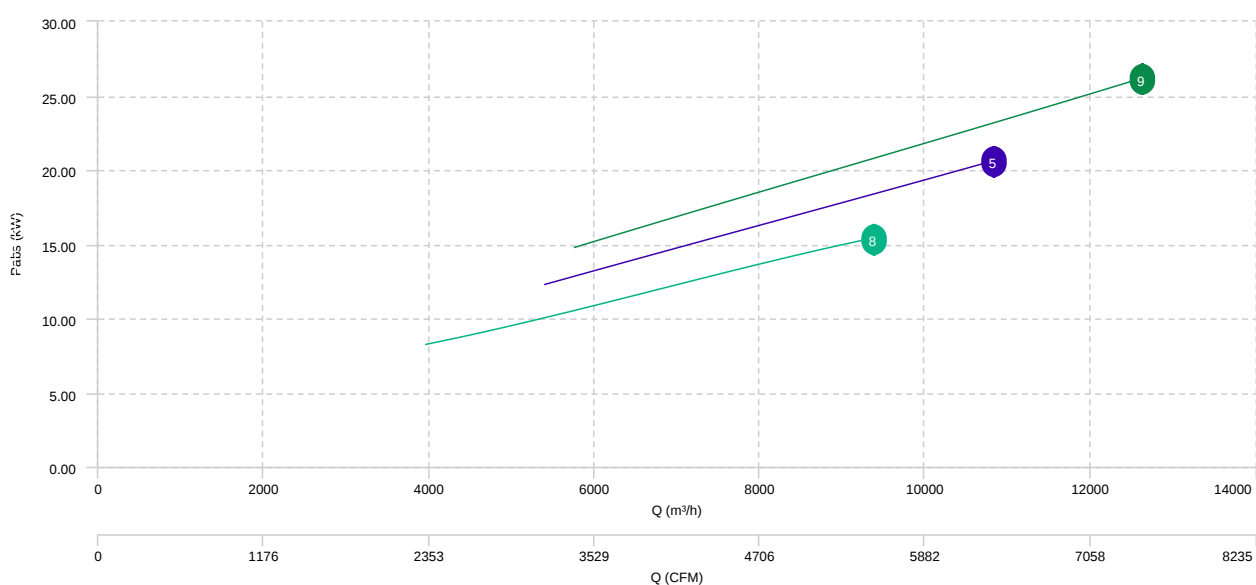
CHARACTERISTIC CURVE

1	AAZC/R 400 T2 4kW ATEX	2	AAZC/R 450 T2 7,5kW ATEX	3	AAZC/R 500 T2 11kW ATEX	4	AAZC/R 500 T2 15kW ATEX
5	AAZC/R 560 T2 22kW ATEX	6	AAZC 400 T2 5,5kW ATEX	7	AAZC 450 T2 11kW ATEX	8	AAZC 500 T2 18,5kW ATEX
9	AAZC 560 T2 30kW ATEX						

AIR FLOW - PRESSURE

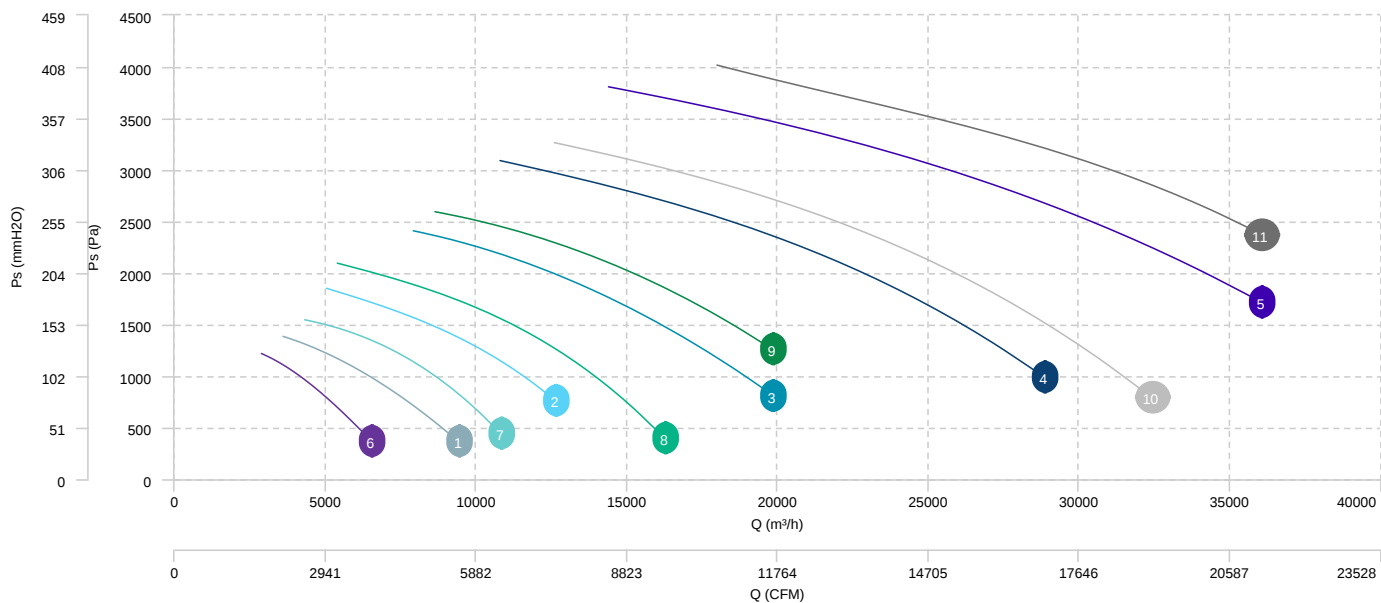


AIR FLOW - ABSORBED POWER



1	AAZC/R 630 T4 5,5kW ATEX	2	AAZC/R 710 T4 11kW ATEX	3	AAZC/R 800 T4 22kW ATEX	4	AAZC/R 900 T4 37kW ATEX
5	AAZC/R 1000 T4 45kW ATEX	6	AAZC 560 T4 4kW ATEX	7	AAZC 630 T4 7,5kW ATEX	8	AAZC 710 T4 15kW ATEX
9	AAZC 800 T4 30kW ATEX	10	AAZC 900 T4 45kW ATEX	11	AAZC 1000 T4 55kW 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
AAZC/R 400 T2 4kW ATEX	Inlet	73	85	92	96	97	92	85	76	101
AAZC/R 450 T2 7,5kW ATEX	Inlet	75	87	93	97	98	94	87	77	103
AAZC/R 500 T2 11kW ATEX	Inlet	76	88	95	99	100	95	89	79	104
AAZC/R 500 T2 15kW ATEX	Inlet	81	93	100	104	105	100	94	84	109
AAZC/R 560 T2 22kW ATEX	Inlet	83	95	101	105	106	102	95	85	110
AAZC 400 T2 5,5kW ATEX	Inlet	76	88	94	98	99	95	88	78	103
AAZC 450 T2 11kW ATEX	Inlet	75	87	93	97	98	94	87	77	102
AAZC 500 T2 18,5kW ATEX	Inlet	84	96	103	107	108	103	97	87	112
AAZC 560 T2 30kW ATEX	Inlet	135	147	154	158	159	154	147	138	163

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
AAZC/R 630 T4 5,5kW ATEX	Inlet	75	87	93	97	98	94	87	77	103
AAZC/R 710 T4 11kW ATEX	Inlet	75	87	94	98	99	94	88	78	103
AAZC/R 800 T4 22kW ATEX	Inlet	81	93	99	103	104	100	93	83	108
AAZC/R 900 T4 37kW ATEX	Inlet	85	97	104	108	109	104	98	88	113
AAZC/R 1000 T4 45kW ATEX	Inlet	86	98	104	108	109	104	98	88	113
AAZC 560 T4 4kW ATEX	Inlet	68	80	87	91	92	87	81	71	96
AAZC 630 T4 7,5kW ATEX	Inlet	75	87	93	98	98	94	87	78	103
AAZC 710 T4 15kW ATEX	Inlet	76	88	94	98	99	95	88	78	104
AAZC 800 T4 30kW ATEX	Inlet	78	90	97	101	102	97	91	81	106
AAZC 900 T4 45kW ATEX	Inlet	88	100	106	110	111	106	100	90	115
AAZC 1000 T4 55kW ATEX	Inlet	85	97	103	107	108	104	97	87	112