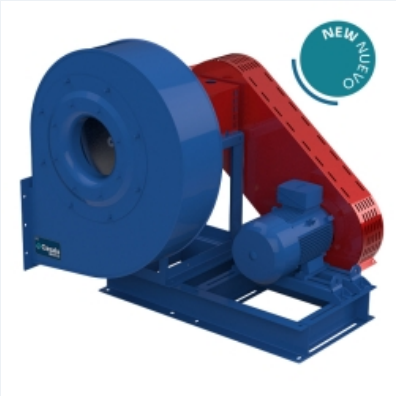
AATZC



Accessories


AB


AC


AVR


AVS


BA-400


BADS


BIDS


EI


FS


INT


JE 45


RA


RI


SFC

HIGH PRESSURE WITH SIMPLE INLET STRAIGHT AND OPEN BLADE IMPELLER AND BELT TRASMISSION

MANUFACTURING FEATURES:

• Fan made of Fe360 sheet. The fan paint finish is based on a Qualicoat polyester powder coating stoved at 200ºC, with an average film thickness of 70 microns. Average heat resistence of coating is 180ºC with peaks of 200ºC.
• 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 300ºC.
• Motorized fan with base frame (configuration 12). Full equipped fans including: motor, pulleys, belts, belts guard and shaft guard. Fitted over a base plate.
• It allows adjusting the orientation locally from models 400 to 630. Models sizes from 710 to 1250 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.
• Exhaust after filters, separators and cyclones.
• Pneumatic transport.
• Solid material transport and textile fibers.
• Maximum working temperature: carried air: 130ºC, ambient: 60ºC.

UNDER REQUEST

· Fans for 60Hz and special voltages.
· 2 speed motor.
· Fan with free shaft (configuration 1) or with motor supported on the pedestal side (configuration 9).
· C4 coating painting
· Hot dip galvanized
· Special steel (Cor-Ten A, Hardox...)
· Inox 304 (normal or electropolished finish)
· Inox 316 (normal or electropolished finish)
· Cooling wheel
· Anticaloric paint
· Reinforced housing
· Fully welded housing (waterproof)
· Insulated housing
· Split casing (for big sizes)
· Inspection door to facilitate maintenance and cleaning
· Drain plug.
· Airtight axle
· Frontal foot
· Double suction flange
· Available in non-sparking air passage and standard motor.
· Other brands of motors.

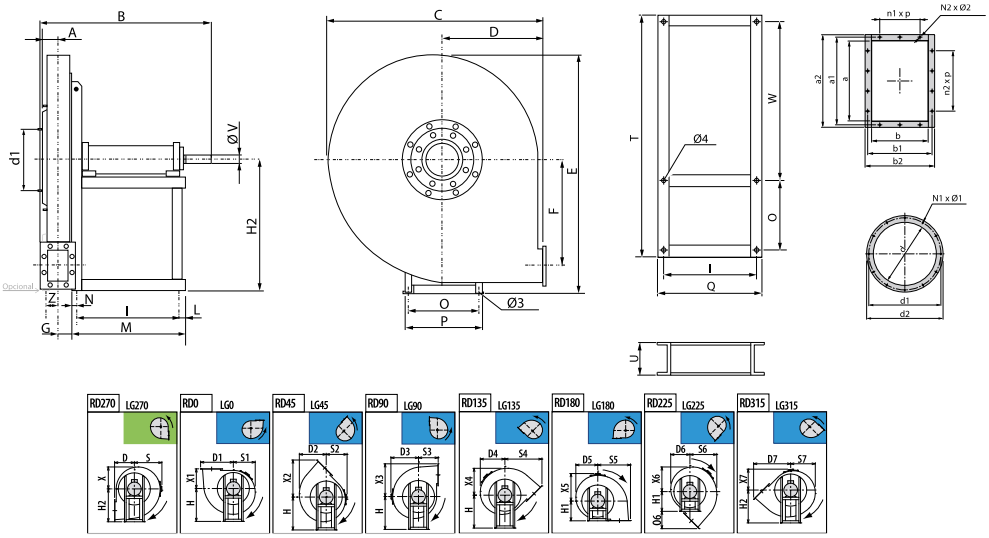
Technical data

Three-phase motor

Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	AATZC 400	1800rpm - 3300rpm	1,10	7,50	5.500	73	109	1
	AATZC 450	1450rpm - 3250rpm	1,50	15,00	7.680	72	120	1
	AATZC 500	1450rpm - 3100rpm	2,20	22,00	10.100	74	180	1
	AATZC 560	1300rpm - 2950rpm	4,00	30,00	13.500	97	235	1
	AATZC 630	1250rpm - 2500rpm	4,00	30,00	19.600	97	273	1
	AATZC 710	950rpm - 2150rpm	5,50	55,00	24.000	92	393	1
	AATZC 800	950rpm - 2000rpm	7,50	55,00	31.850	82	471	1
	AATZC 900	900rpm - 1800rpm	7,50	55,00	38.000	85	561	1
	AATZC 1000	800rpm - 1600rpm	11,00	90,00	50.150	87	797	1
	AATZC 1120	650rpm - 1350rpm	11,00	90,00	55.600	86	1064	1
	AATZC 1250	650rpm - 1250rpm	15,00	132,00	71.340	88	1307	1

Notes:
* The motor is not included in fan weight
** 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
AATZC 400	105	805	685	285	483	387	400	353	315
AATZC 450	115	820	765	320	541	435	445	398	354
AATZC 500	131	956	862	360	597	490	502	450	400

Model	D6	D7	E	F	G	H	H1	H2	I
AATZC 400	306	543	815	319	97	500	285	500	407
AATZC 450	342	609	914	357	107	560	320	560	407
AATZC 500	380	676	1000	396	119	600	360	600	477

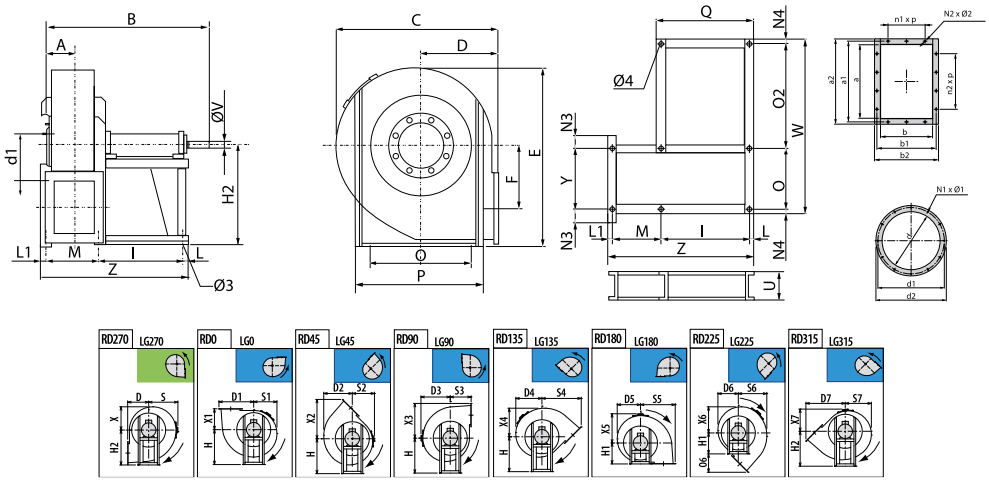
Model	L	M	N	N1xØ1	N2xØ2	O6	P	Q	S
AATZC 400	28	485	50	8xM8x25	10x12	355	400	463	400
AATZC 450	28	485	50	8xM8x25	10x12	355	400	463	445
AATZC 500	33	560	50	8xM8x25	10x12	364	418	543	502

Model	S1	S2	S3	S4	S5	S6	S7	T	U
AATZC 400	315	306	285	543	483	387	353	1010	120
AATZC 450	354	342	320	609	541	435	398	1010	120
AATZC 500	400	380	360	676	597	490	450	1050	140

Model	W	X	X1	X2	X3	X4	X5	X6	X7
AATZC 400	610	315	285	543	483	387	400	353	306
AATZC 450	610	354	320	609	541	435	445	398	342
AATZC 500	632	400	360	676	597	490	502	450	380

Model	Z	a	a1	a2	b	b1	b2	d	d1
AATZC 400	123	258	292	328	185	219	255	255	292
AATZC 450	133	288	332	368	205	249	285	285	332
AATZC 500	145	322	366	402	229	273	309	320	366

Model	d2	n1xp	n2xp	Ø3	Ø4	ØV
AATZC 400	325	1x112	2x112	14	15	38
AATZC 450	370	1x125	2x125	14	15	38
AATZC 500	405	1x125	2x125	17	18	42



Model	A	B	C	D	D1	D2	D3	D4	D5
AATZC 560	142	1031	970	400	657	555	570	542	485
AATZC 630	158	1069	1080	450	732	619	630	603	540
AATZC 710	185	1158	1190	500	825	719	690	662	578
AATZC 800	199	1214	1342	560	919	811	782	749	672
AATZC 900	221	1257	1500	630	1038	905	870	835	721
AATZC 1000	246	1449	1686	710	1160	1015	976	936	813
AATZC 1120	277	1649	1884	800	1300	1123	1084	1037	932
AATZC 1250	310	1710	2114	900	1464	1270	1214	1163	1048

Model	D6	D7	E	F	H	H1	H2	I	L
AATZC 560	425	747	1155	436	670	400	670	477	33
AATZC 630	476	836	1290	490	750	450	750	477	33
AATZC 710	497	937	1428	558	670	500	850	551	39
AATZC 800	562	1045	1622	625	755	560	950	551	39
AATZC 900	633	1179	1781	703	850	630	1060	51	39
AATZC 1000	718	1322	1993	791	950	710	1180	607	45

Model	D6	D7	E	F	H	H1	H2	I	L
AATZC 1120	793	1487	2252	891	1060	800	1320	760	45
AATZC 1250	898	1671	2548	1003	1190	900	1500	760	45

Model	L1	M	N1xØ1	N2xØ2	N3	N4	O	O2	O6
AATZC 560	23	341	8xM8x25	10x12	30	30	632	678	347
AATZC 630	23	372	12xM8x25	14x12	30	30	702	708	386
AATZC 710	27	415	12xM8x25	14x12	71	27	772	807	437
AATZC 800	47	454	12xM8x25	14x12	91	32	862	842	485
AATZC 900	47	497	12xM8x25	14x14	91	32	962	987	549
AATZC 1000	67	541	12xM10x30	14x14	99	36	1056	1036	612
AATZC 1120	55	632	16xM10x30	16x14	111	45	1178	1066	687
AATZC 1250	55	694	16xM10x30	14x14	110	45	1310	1230	771

Model	P	Q	S	S1	S2	S3	S4	S5	S6
AATZC 560	692	543	570	485	425	400	747	657	555
AATZC 630	762	543	630	540	476	450	836	732	619
AATZC 710	826	629	690	578	497	500	937	825	719
AATZC 800	926	629	782	672	562	560	1045	919	811
AATZC 900	1026	629	870	721	633	630	1179	1038	905
AATZC 1000	1128	697	976	813	718	710	1322	1160	1015
AATZC 1120	1268	850	1084	932	793	800	1487	1300	1123
AATZC 1250	1400	850	1214	1048	898	900	1671	1464	1270

Model	S7	U	W	X	X1	X2	X3	X4	X5
AATZC 560	542	160	1370	485	400	747	657	555	570
AATZC 630	603	160	1470	540	450	836	732	619	630
AATZC 710	662	180	1633	578	500	937	825	719	690
AATZC 800	749	180	1468	672	560	1045	919	811	782
AATZC 900	835	180	2013	721	630	1179	1038	905	870
AATZC 1000	936	200	2164	813	710	1322	1160	1015	976
AATZC 1120	1037	220	2334	932	800	1487	1300	1123	1084
AATZC 1250	1163	220	2630	1048	900	1671	1464	1270	1214

Model	X6	X7	Y	Z	a	a1	a2	b	b1
AATZC 560	542	425	632	873	361	405	441	256	300
AATZC 630	603	476	702	905	404	448	484	288	332

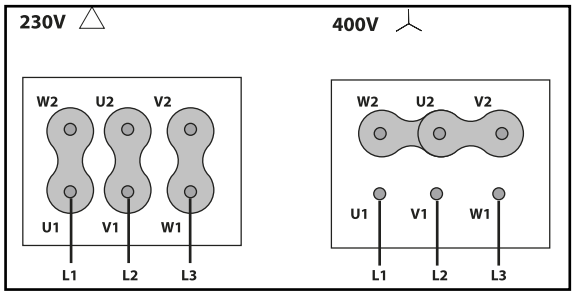
Model	X6	X7	Y	Z	a	a1	a2	b	b1
AATZC 710	662	497	772	1032	453	497	533	322	366
AATZC 800	749	562	862	1091	507	551	587	361	405
AATZC 900	835	633	962	1134	569	629	669	404	464
AATZC 1000	936	718	1056	1260	638	698	738	453	513
AATZC 1120	1037	793	1178	1492	715	775	815	507	567
AATZC 1250	1163	898	1310	1554	801	871	921	569	639

Model	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4	ØV
AATZC 560	336	360	405	445	1x125	2x125	17	18	48
AATZC 630	368	405	448	490	2x125	3x125	17	18	48
AATZC 710	402	455	497	540	2x125	3x125	19	20	48
AATZC 800	441	505	551	590	2x125	3x125	19	20	55
AATZC 900	504	565	629	670	2x160	3x160	19	20	55
AATZC 1000	553	635	698	735	2x160	3x160	19	20	65
AATZC 1120	607	715	775	815	2x160	3x160	24	25	75
AATZC 1250	689	805	861	905	2x200	3x200	24	25	75

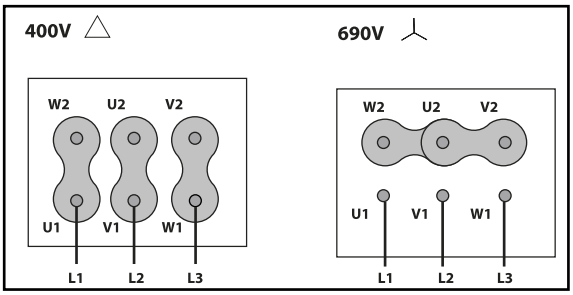
Wiring diagram

Wiring diagram Nº 1

230/400V



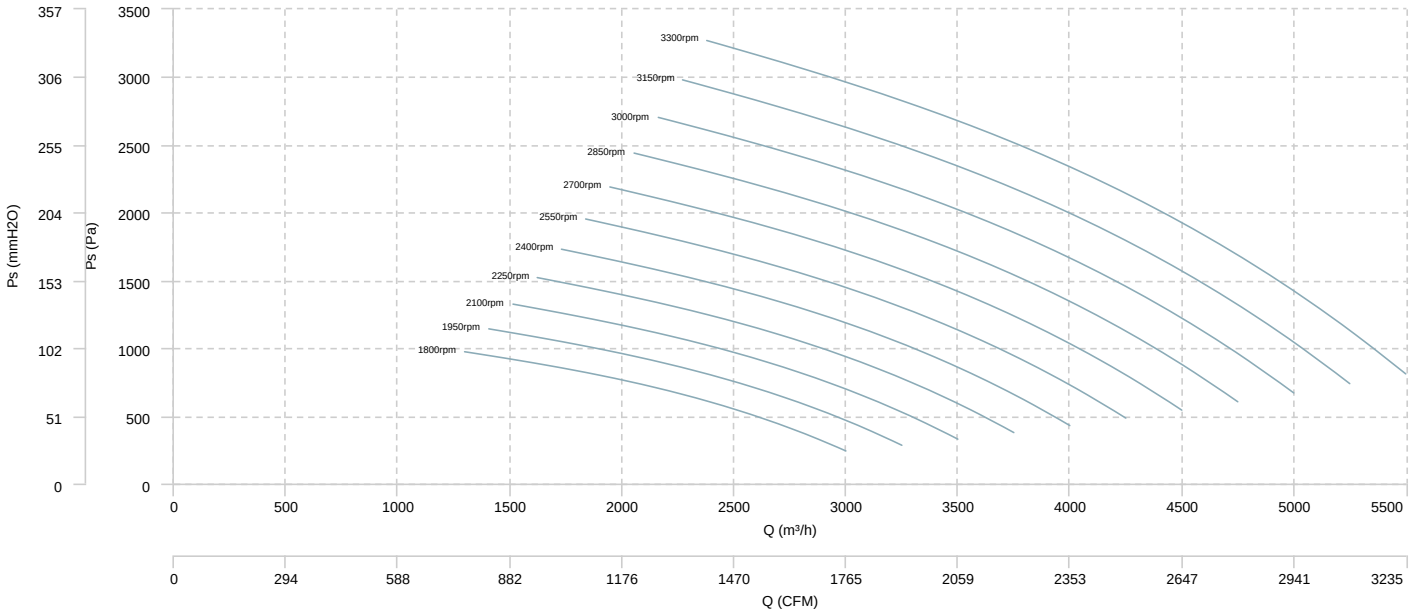
400/690V



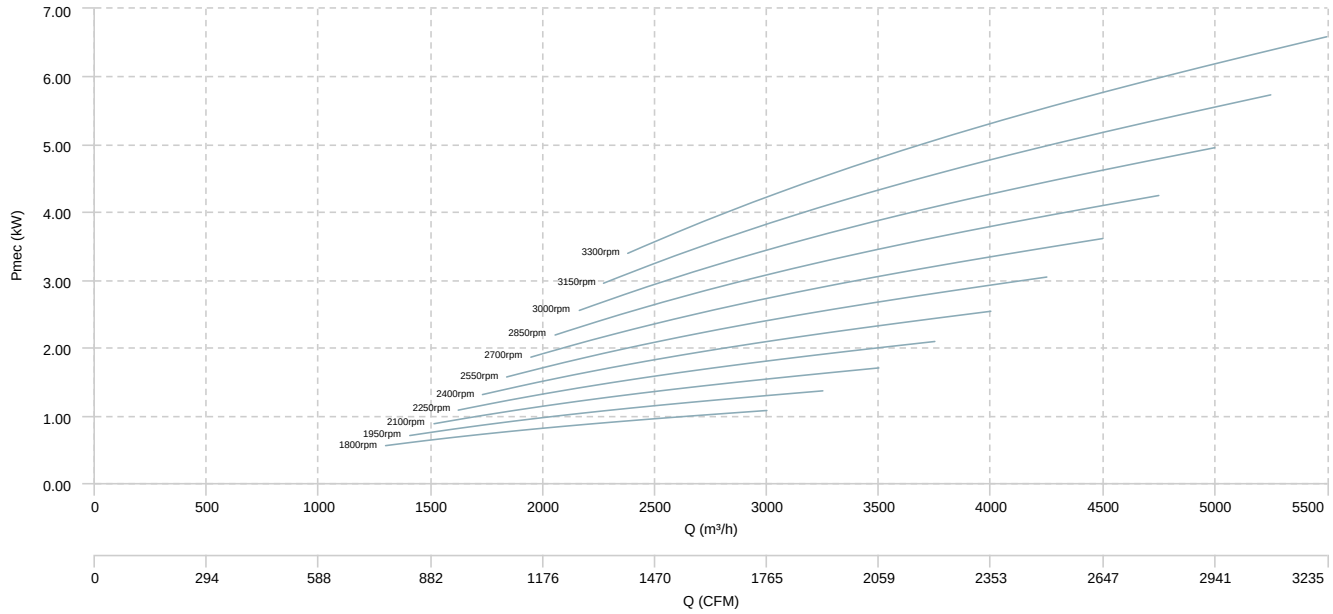
CHARACTERISCTIC CURVE

AATZC 400

AIR FLOW - PRESSURE

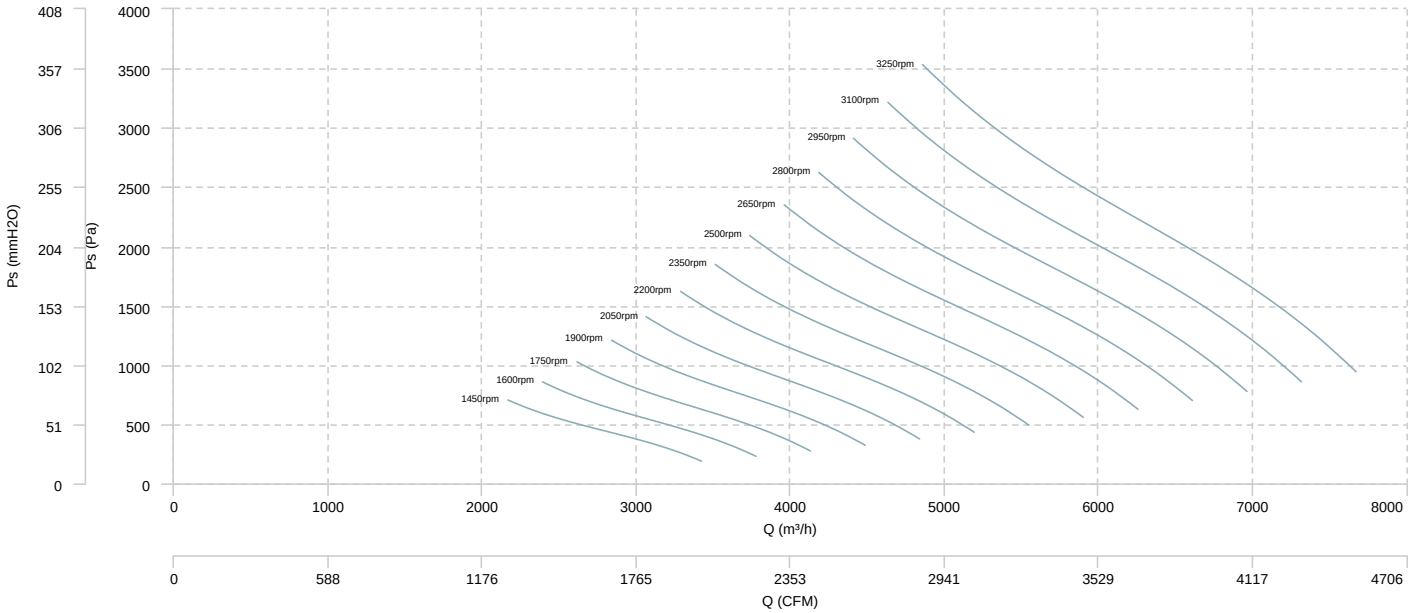


AIR FLOW - MECHANICAL POWER

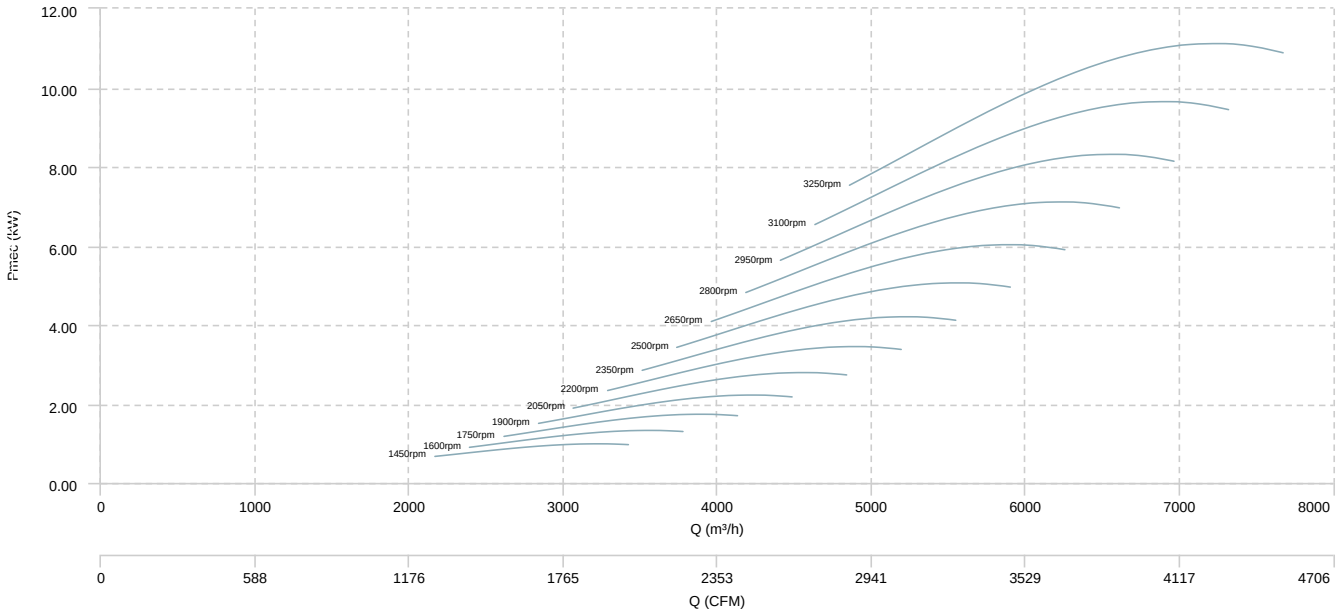


AATZC 450

AIR FLOW - PRESSURE

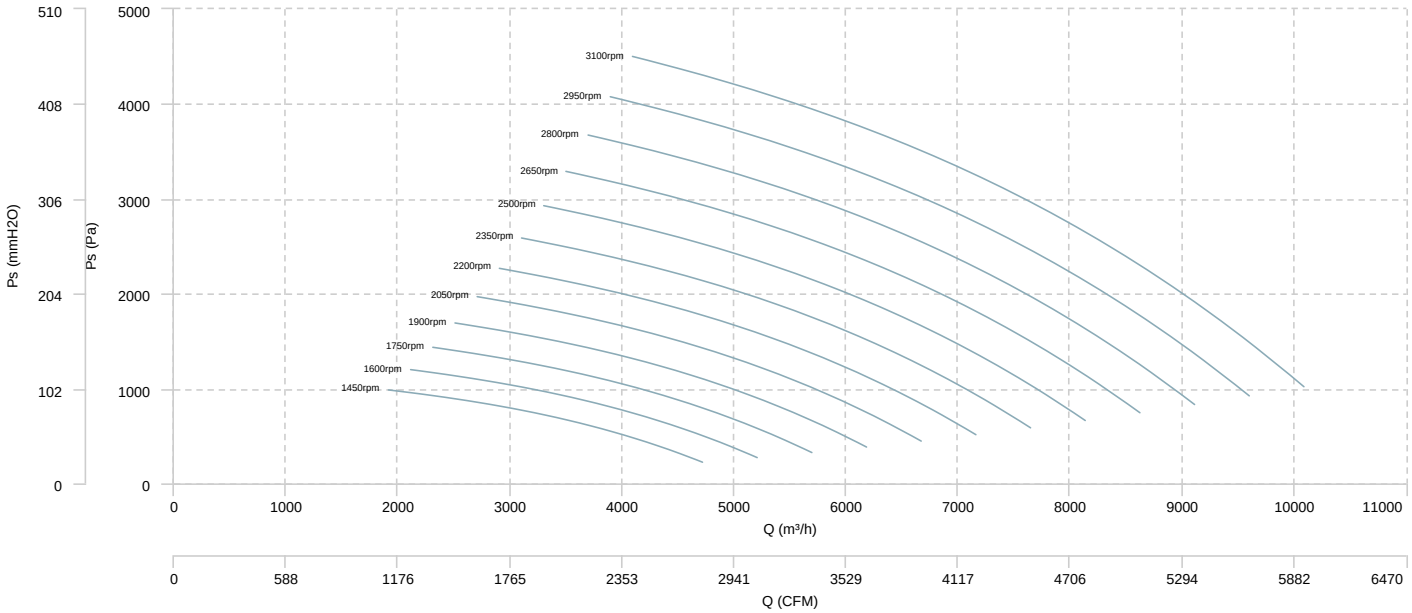


AIR FLOW - MECHANICAL POWER



AATZC 500

AIR FLOW - PRESSURE



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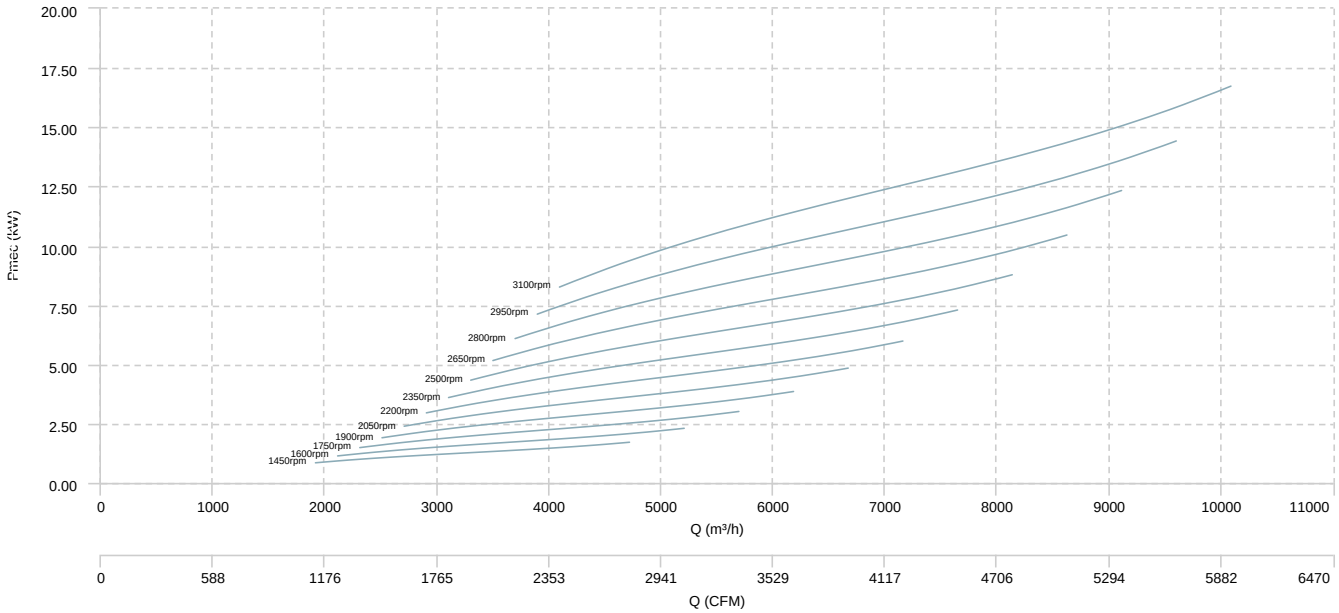
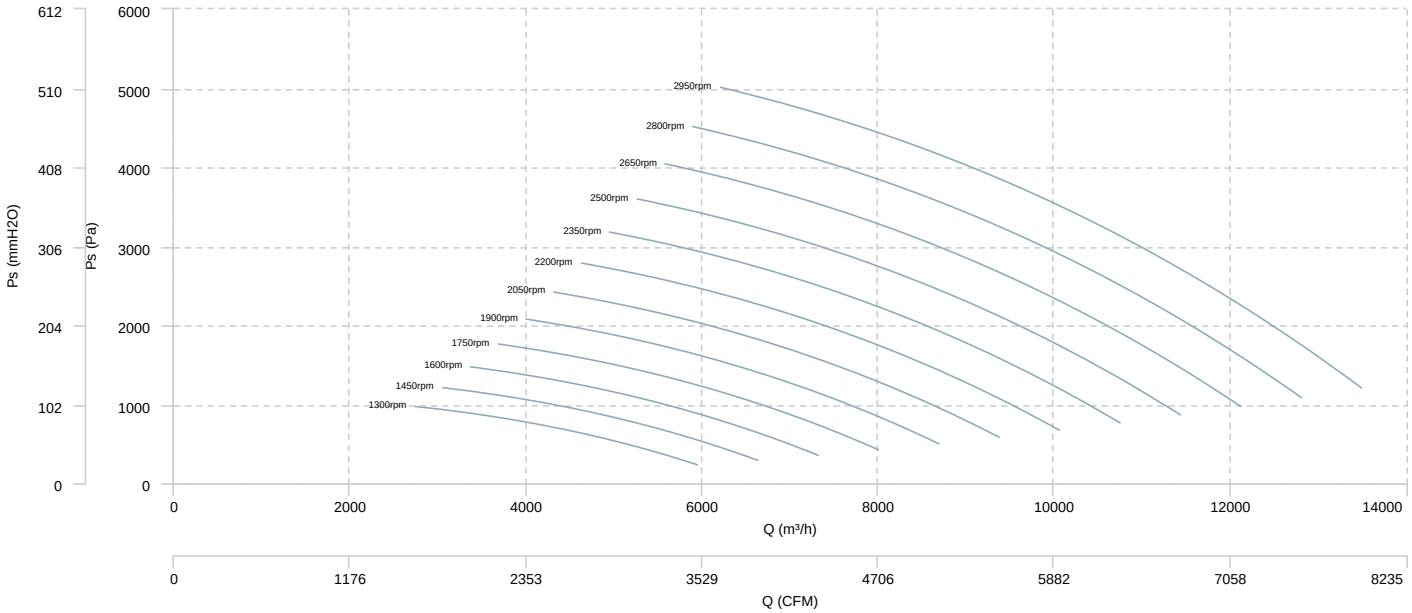
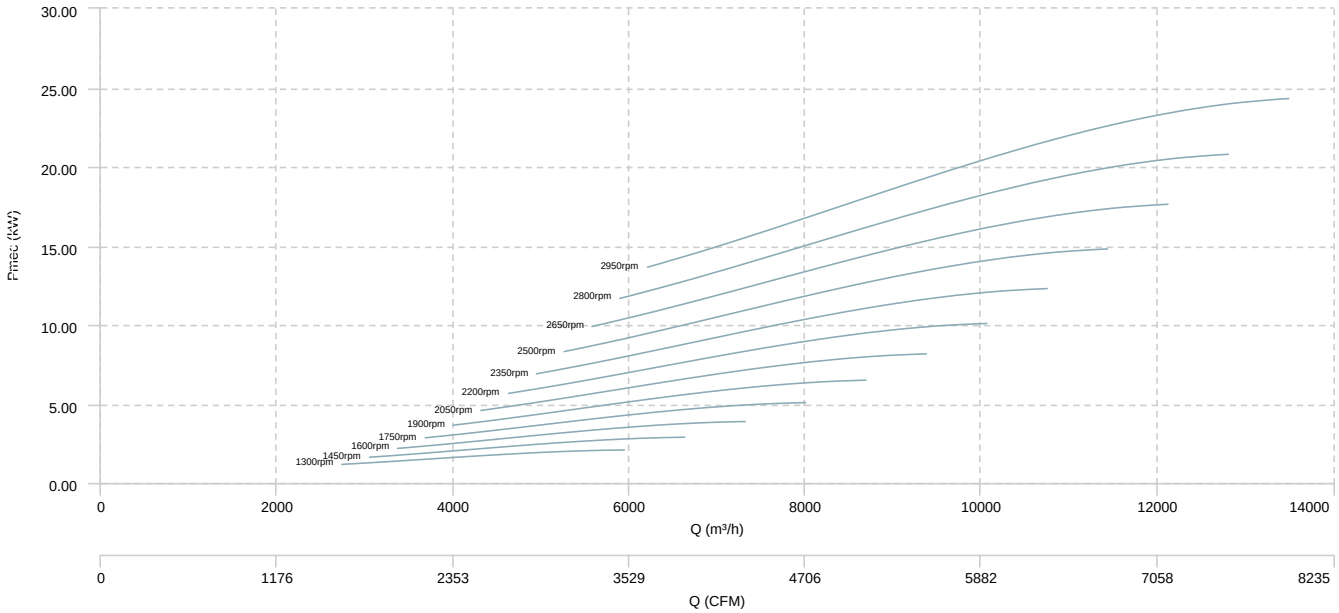


AATZC 560

AIR FLOW - PRESSURE

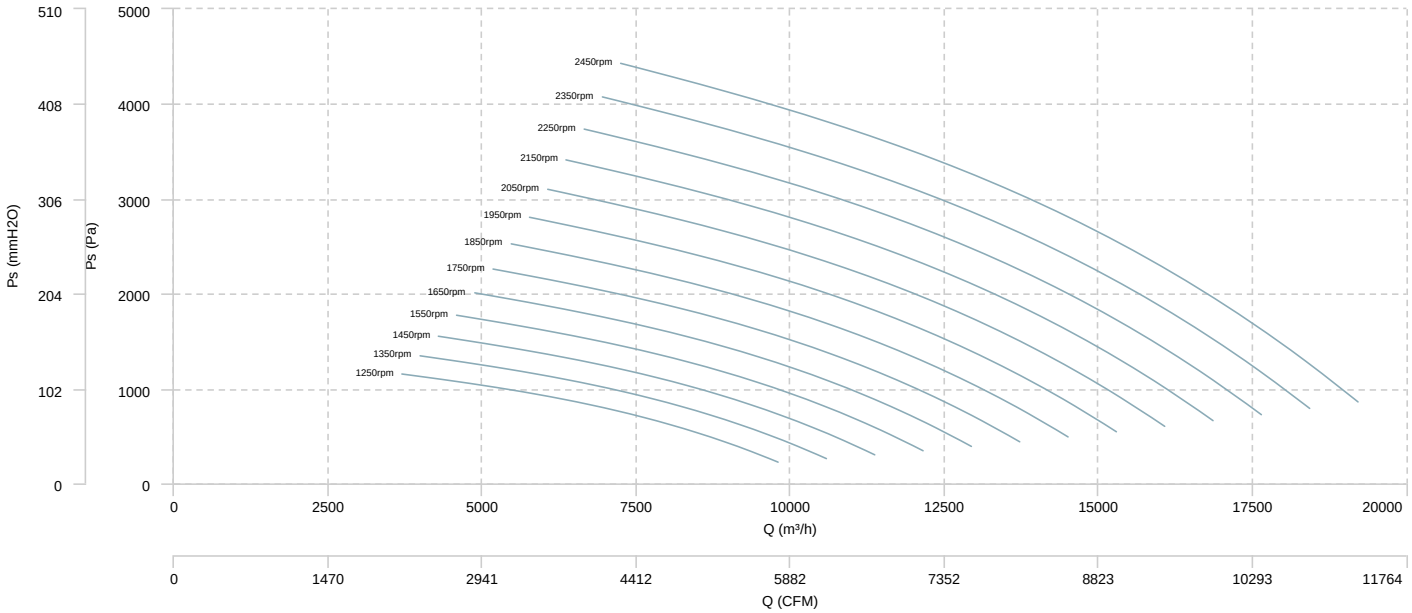


AIR FLOW - MECHANICAL POWER

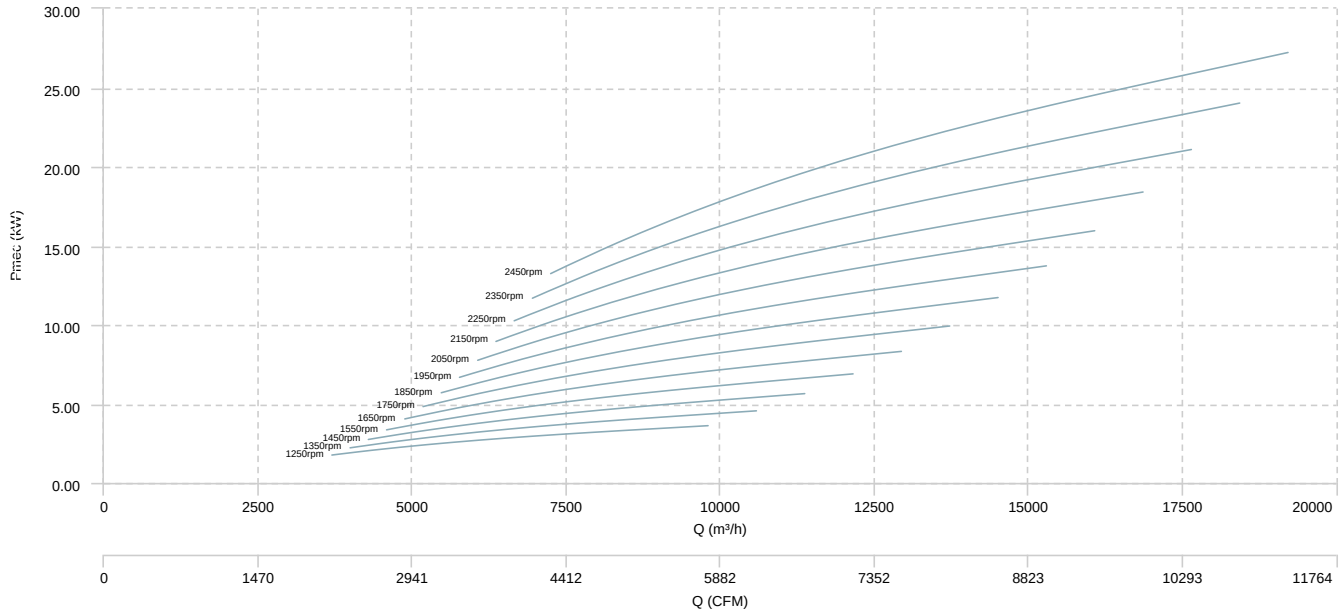


AATZC 630

AIR FLOW - PRESSURE

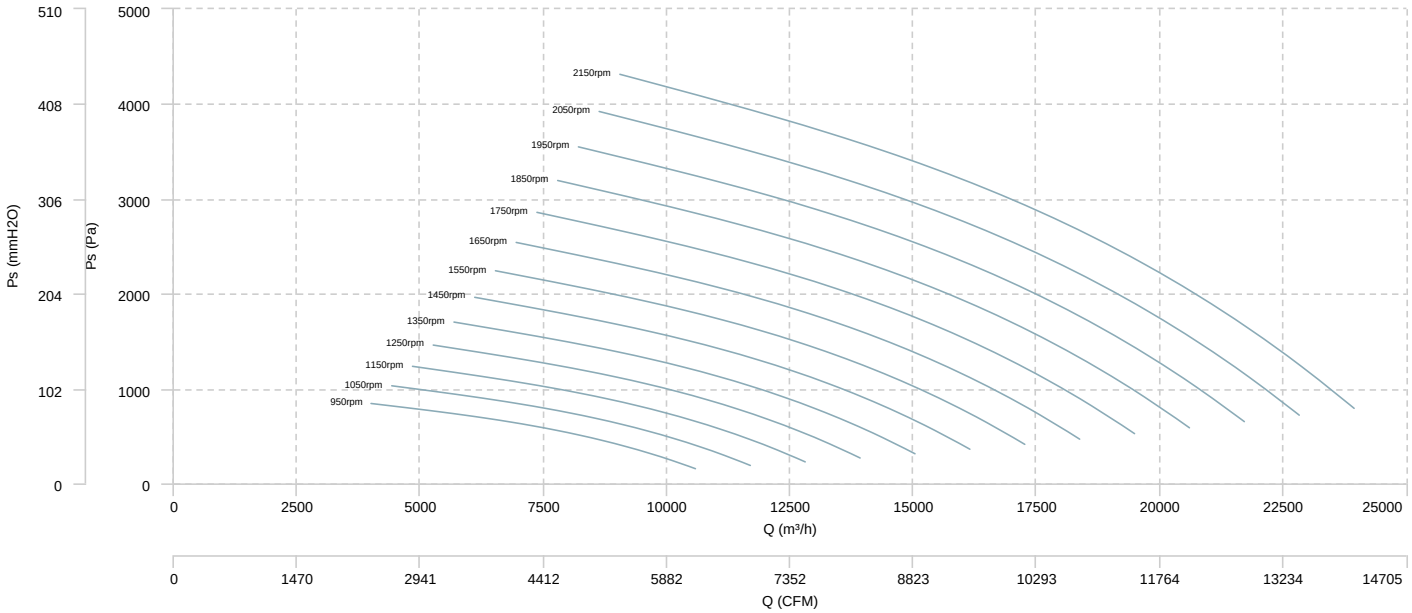


AIR FLOW - MECHANICAL POWER

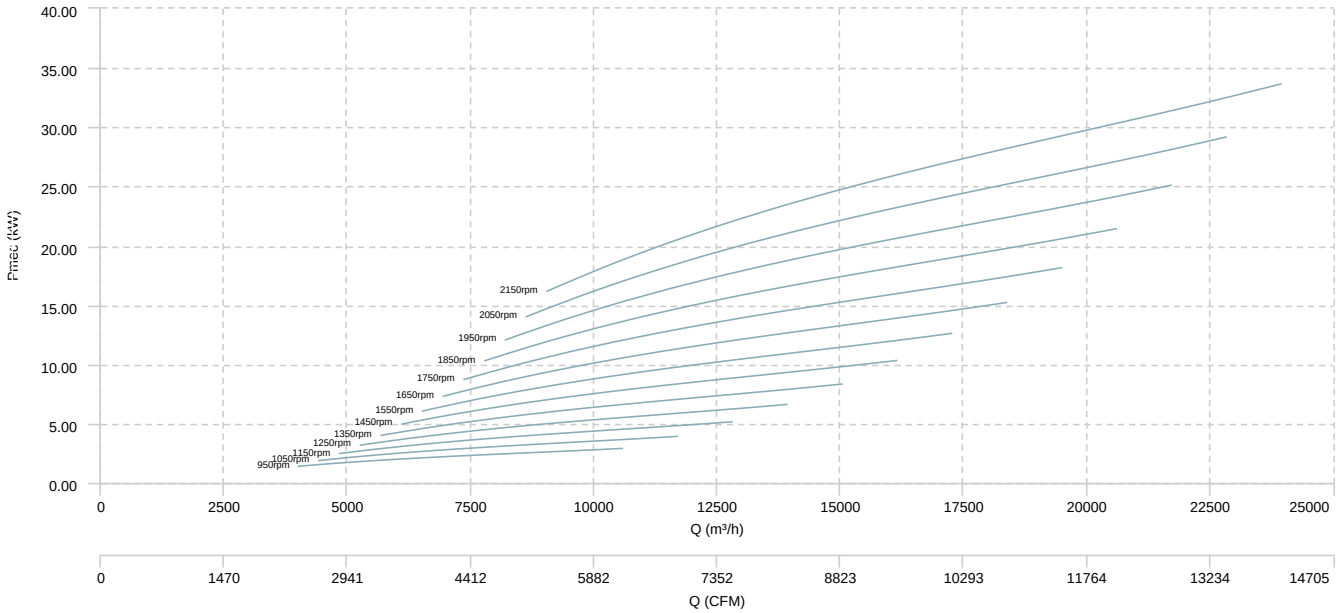


AATZC 710

AIR FLOW - PRESSURE

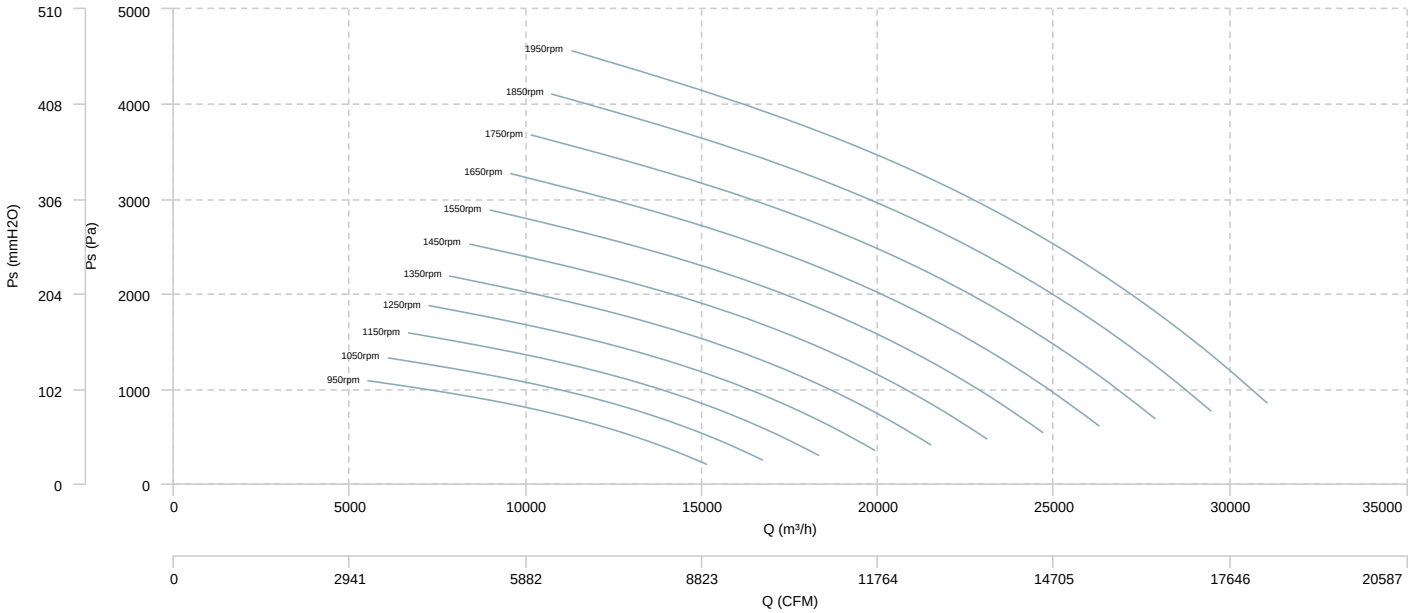


AIR FLOW - MECHANICAL POWER

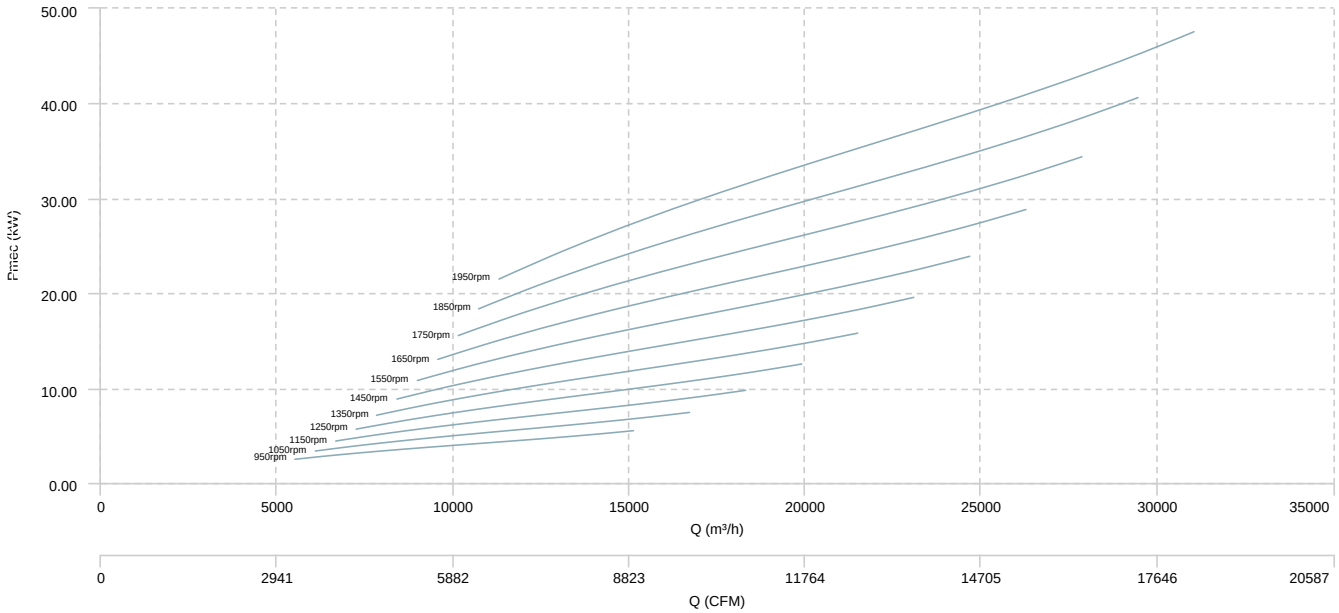


AATZC 800

AIR FLOW - PRESSURE

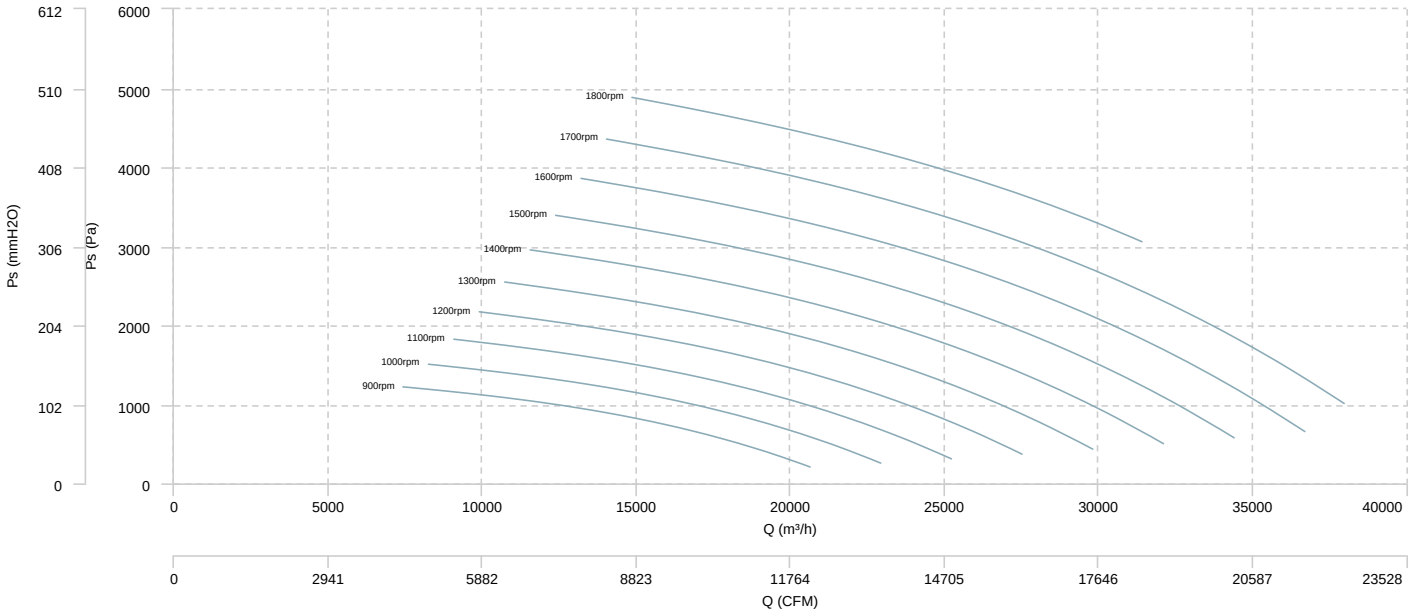


AIR FLOW - MECHANICAL POWER

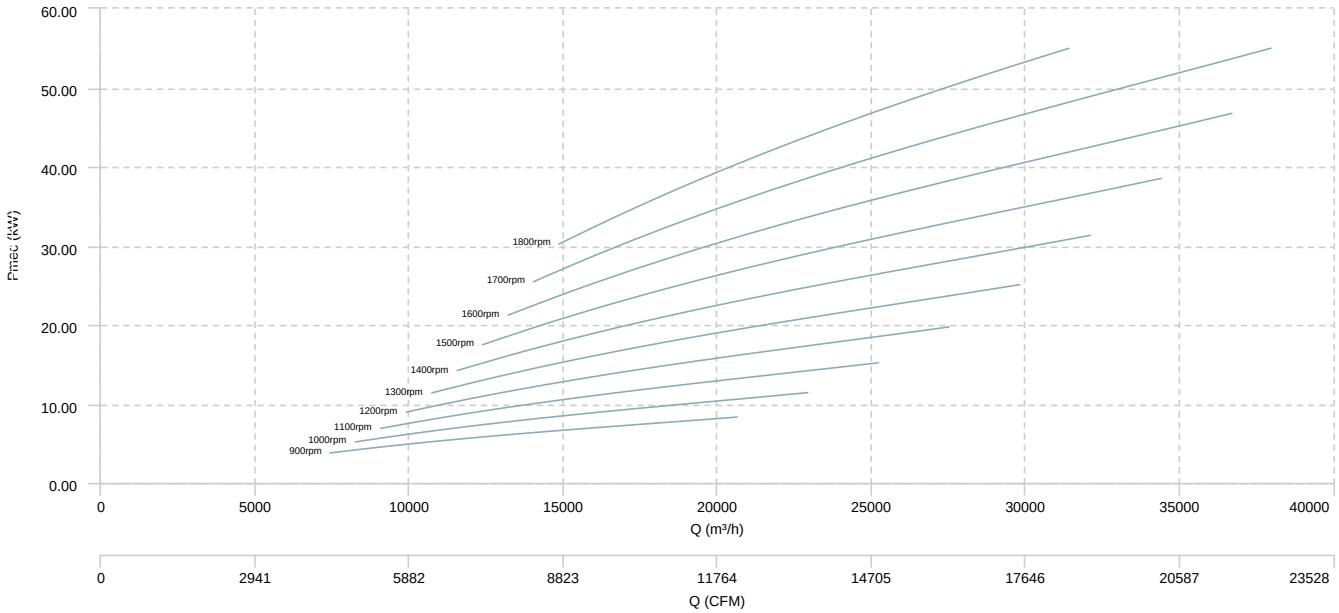


AATZC 900

AIR FLOW - PRESSURE

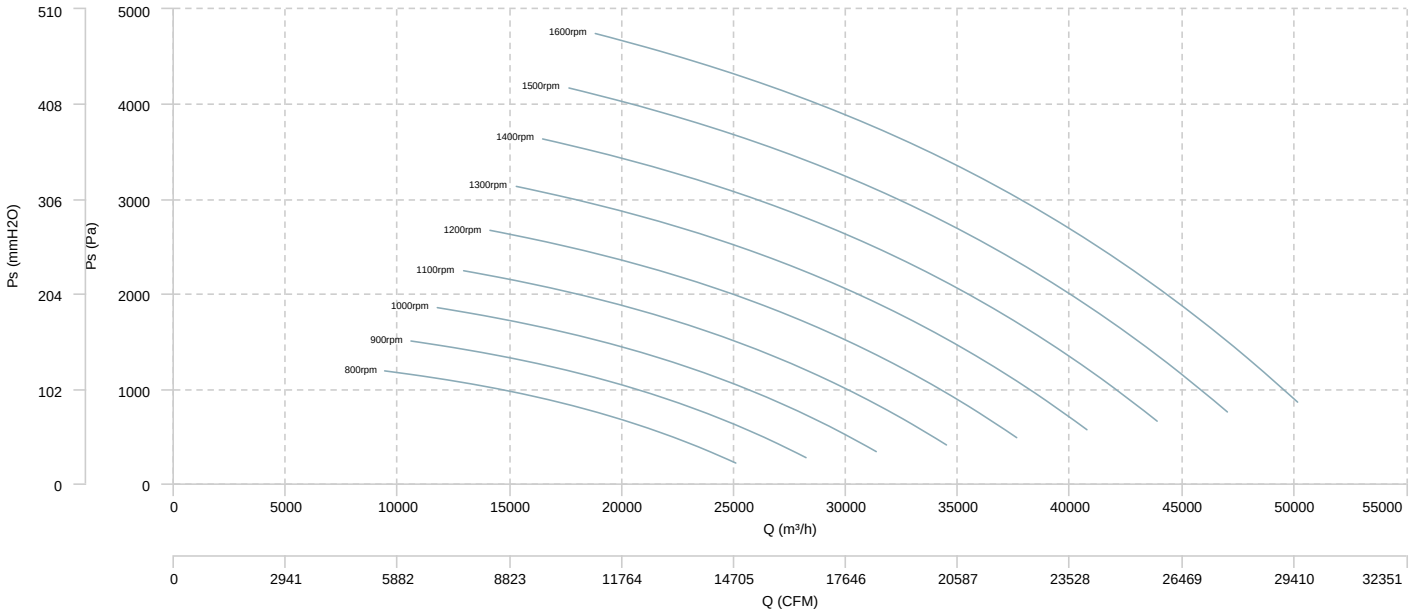


AIR FLOW - MECHANICAL POWER

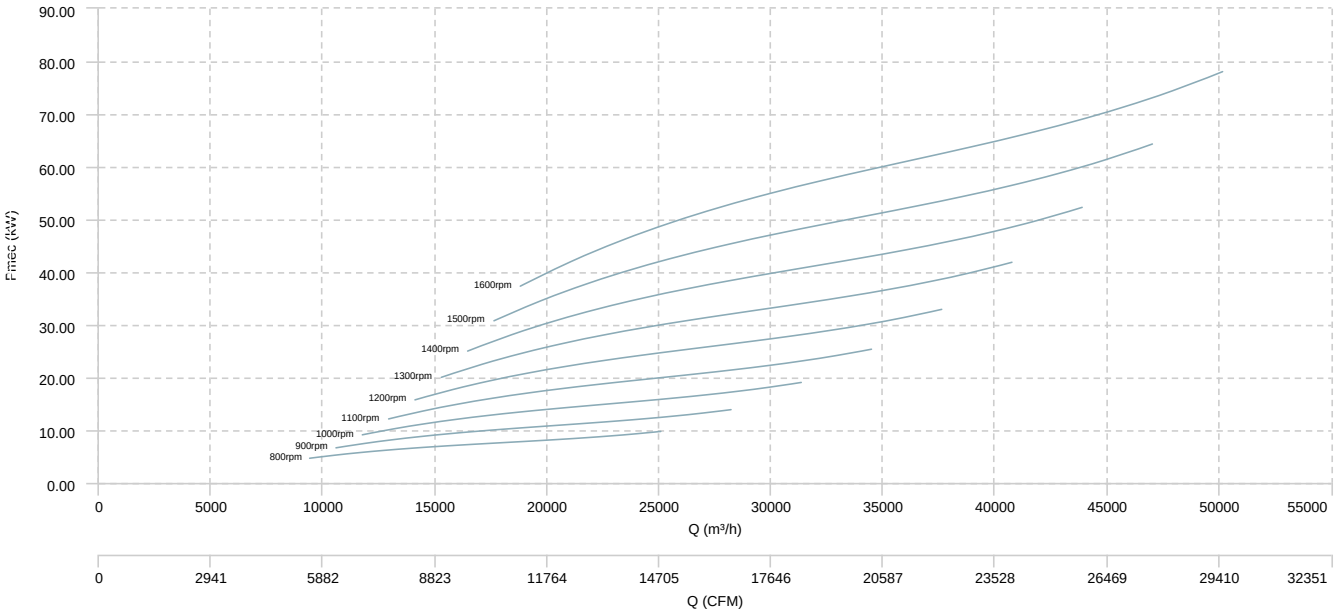


AATZC 1000

AIR FLOW - PRESSURE

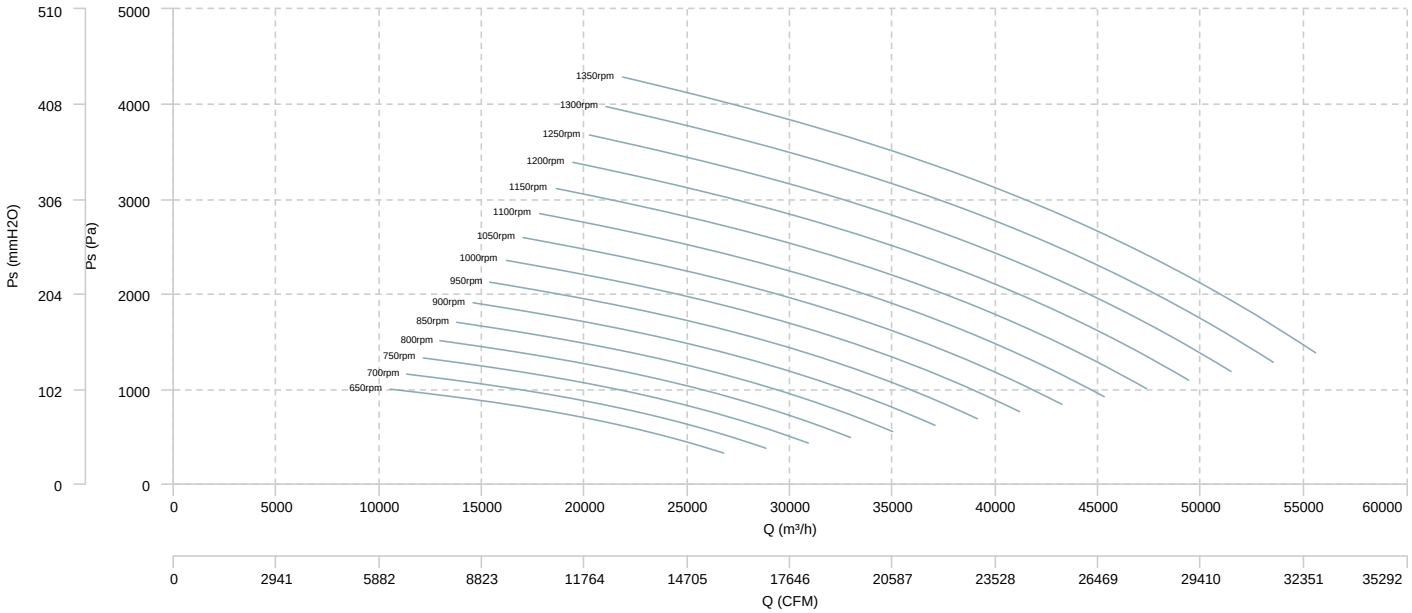


AIR FLOW - MECHANICAL POWER

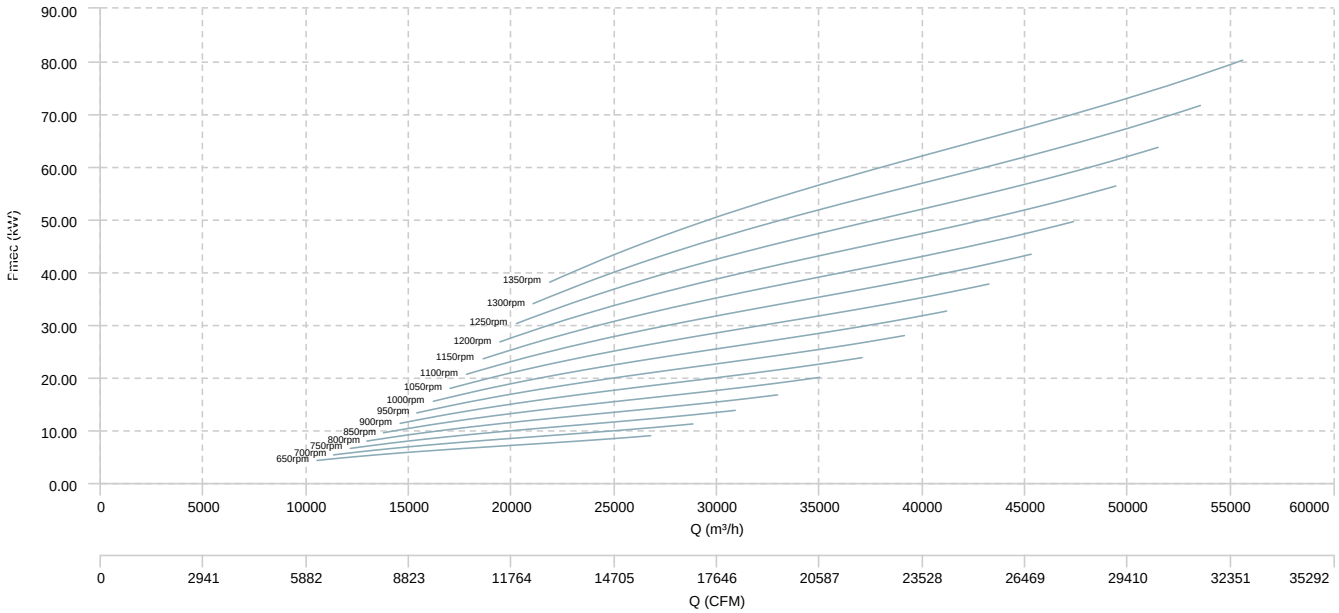


AATZC 1120

AIR FLOW - PRESSURE

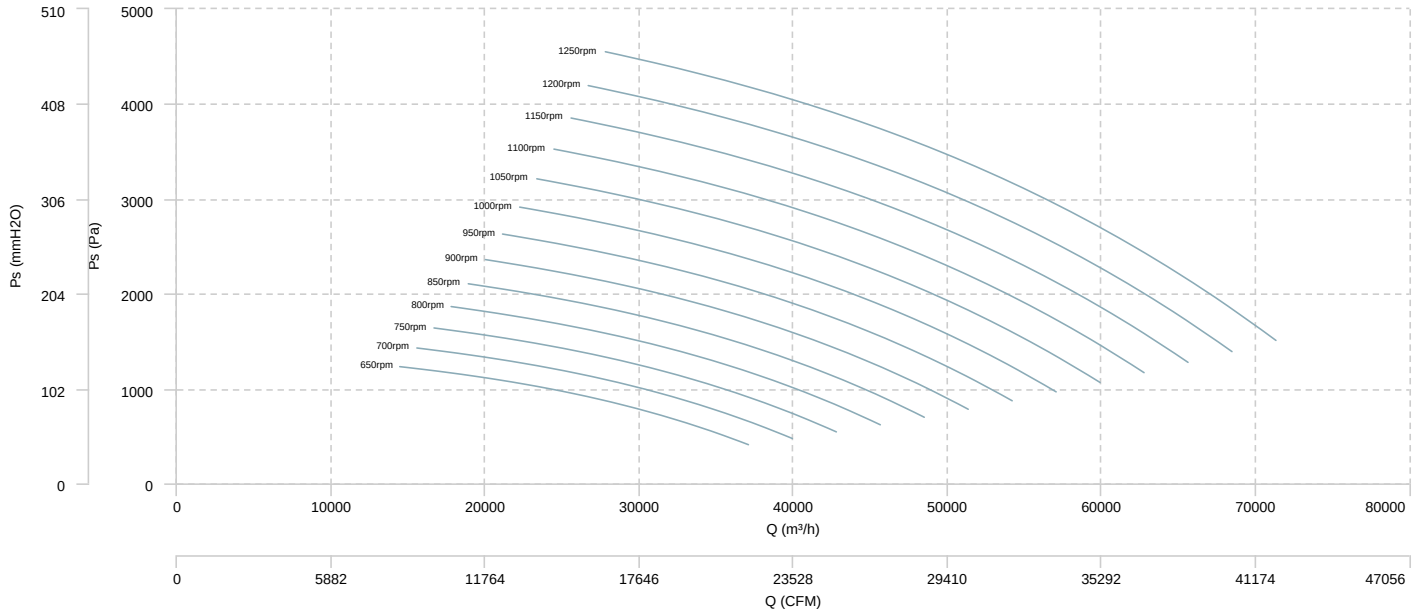


AIR FLOW - MECHANICAL POWER

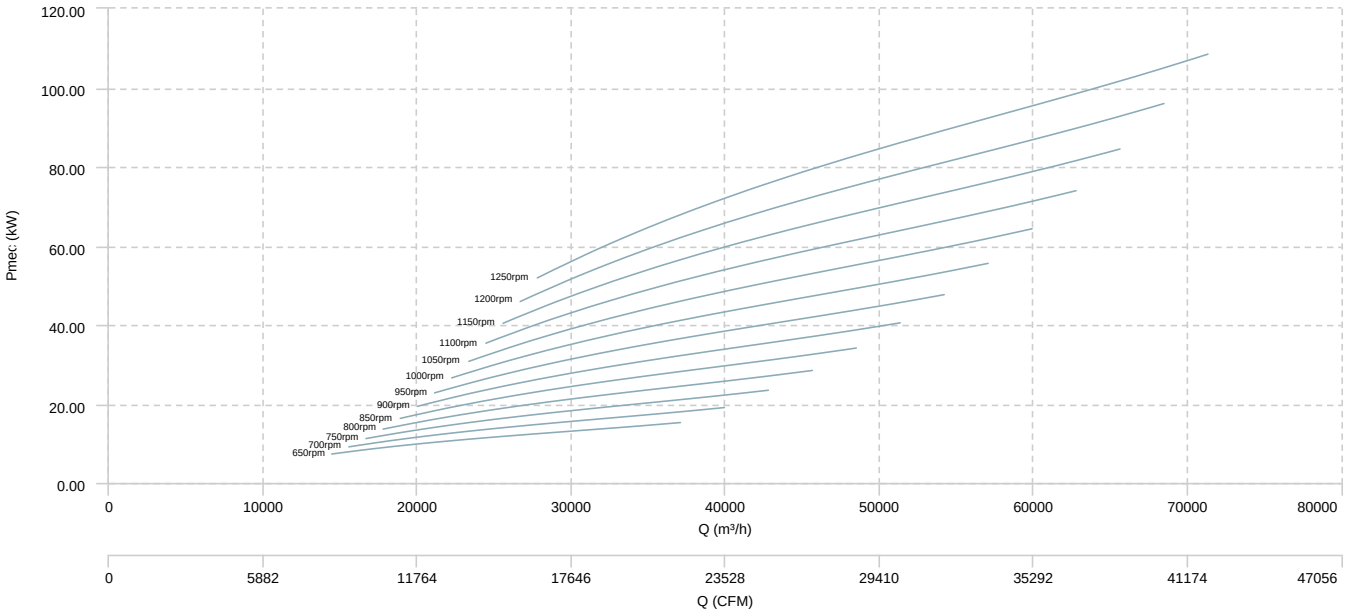


AATZC 1250

AIR FLOW - PRESSURE



AIR FLOW - MECHANICAL POWER



Sound data

Sound power Lw dB (A)										
Model		**63 Hz**	**125 Hz**	**250 Hz**	**500 Hz**	**1000 Hz**	**2000 Hz**	**4000 Hz**	**8000 Hz**	**Total**
AATZC 400 (1800rpm)	Inlet	57	69	76	80	81	76	70	60	85
AATZC 450 (1450rpm)	Inlet	52	64	71	75	76	71	65	55	80
AATZC 500 (1450rpm)	Inlet	55	67	73	77	78	73	67	57	82
AATZC 560 (1300rpm)	Inlet	77	89	95	100	100	96	89	80	105
AATZC 630 (1250rpm)	Inlet	80	92	98	102	103	98	92	82	107
AATZC 710 (950rpm)	Inlet	72	84	91	95	96	91	85	75	100
AATZC 800 (950rpm)	Inlet	63	75	82	86	87	82	76	66	91
AATZC 900 (900rpm)	Inlet	68	80	86	90	91	87	80	70	95
AATZC 1000 (800rpm)	Inlet	70	82	88	92	93	89	82	72	97
AATZC 1120 (650rpm)	Inlet	67	79	86	90	91	86	80	70	95
AATZC 1250 (650rpm)	Inlet	71	83	90	94	95	90	83	74	99

Notes:
* To calculate the sound power level at different rpm from those indicated above, use the following formula:

$$\text{Lw dB(A)}_{\text{rpmA}} = \text{Lw dB(A)}_{\text{rpmB}} + 52.5 \cdot \log_{10}\frac{\text{rpmA}}{\text{rpmB}}$$