

AATZB ATEX



HIGH PRESSURE ATEX FAN WITH SIMPLE INLET RADIAL, CURVED AND OPEN BLADES 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 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.
- ATEX standard asynchronous motor. ATEX certified according to the zone. Squirrel-cage motor with class F insulation. Manufactured with standard voltages: 230/400V 50Hz for three phase motors up to 4kW and 400/690V 50Hz for higher powers.
- 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.
- Working temperature: ambient from -20°C to 40°C, transported air according to the ATEX clasifiacion.

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

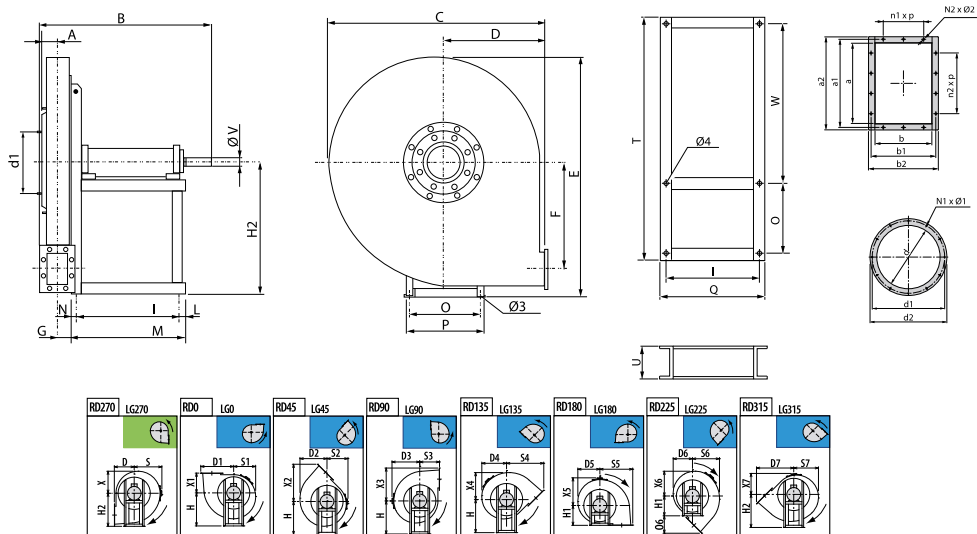
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	AATZB 400 ATEX	2350rpm - 5300rpm	1,10	7,50	2.660	76	94	1
	AATZB 450 ATEX	2100rpm - 4500rpm	1,10	7,50	3.150	75	101	1
	AATZB 500 ATEX	1900rpm - 4250rpm	2,20	18,50	4.950	77	120	1
	AATZB 560 ATEX	1700rpm - 3750rpm	3,00	22,00	5.950	75	155	1
	AATZB 630 ATEX	1500rpm - 3350rpm	4,00	37,00	6.730	73	207	1
	AATZB 710 ATEX	1300rpm - 3200rpm	5,50	45,00	9.000	76	322	1
	AATZB 800 ATEX	1200rpm - 2700rpm	7,50	55,00	11.210	84	337	1
	AATZB 900 ATEX	1050rpm - 2350rpm	7,50	75,00	13.890	78	541	1
	AATZB 1000 ATEX	950rpm - 2100rpm	11,00	90,00	17.200	79	921	1
	AATZB 1120 ATEX	900rpm - 1900rpm	15,00	110,00	21.700	79	930	1
	AATZB 1250 ATEX	850rpm - 1700rpm	18,50	132,00	26.930	78	1336	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
AATZB 400 ATEX	71	720	620	280	356	314	340	302	284
AATZB 450 ATEX	78	750	675	300	393	350	375	335	313
AATZB 500 ATEX	86	765	745	335	436	386	410	370	345
AATZB 560 ATEX	95	885	835	375	488	438	460	418	393

Model	D6	D7	E	F	G	H1	H2	I	L
AATZB 400 ATEX	293	450	659	238	63	280	375	407	28
AATZB 450 ATEX	319	490	713	265	70	300	400	407	28
AATZB 500 ATEX	350	546	795	297	78	335	450	407	28
AATZB 560 ATEX	392	613	893	337	88	375	500	477	33

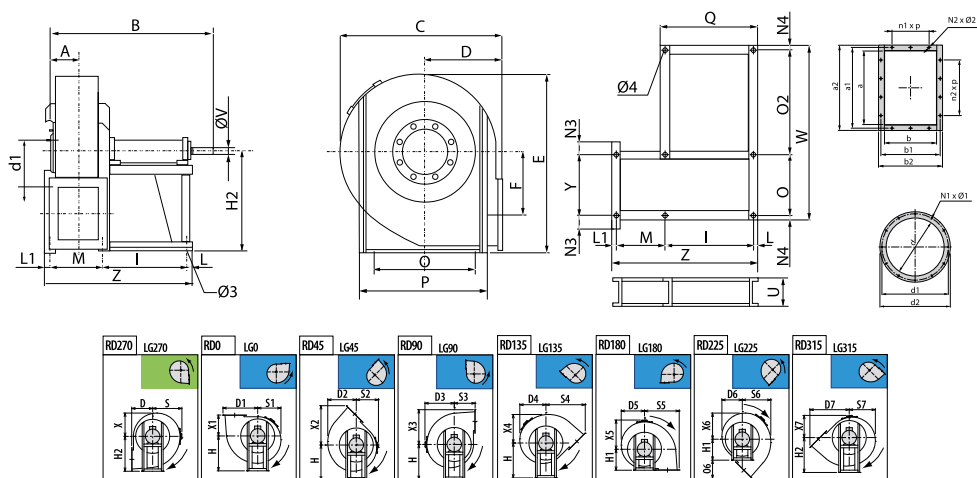
Model	M	N	N1xØ1	N2xØ2	O6	P	Q	S	S1
AATZB 400 ATEX	485	50	8xM6x20	6x12	355	400	463	340	284
AATZB 450 ATEX	485	50	8xM6x20	6x12	355	400	463	375	313
AATZB 500 ATEX	485	50	8xM6x20	8x12	355	400	463	410	345
AATZB 560 ATEX	560	50	8xM8x25	8x12	364	418	543	460	393

Model	S2	S4	S5	S6	S7	T	U	W	X
AATZB 400 ATEX	280	450	356	314	302	1060	120	660	284
AATZB 450 ATEX	300	490	393	350	335	1060	120	660	313
AATZB 500 ATEX	335	546	436	386	370	1180	120	780	345
AATZB 560 ATEX	375	613	488	438	418	1250	160	832	393

Model	X1	X2	X3	X4	X5	X6	X7	a	a1
AATZB 400 ATEX	280	450	356	314	340	302	293	166	200
AATZB 450 ATEX	300	490	393	350	375	335	319	185	219
AATZB 500 ATEX	335	546	436	386	410	370	350	207	241
AATZB 560 ATEX	375	613	488	438	460	418	392	231	265

Model	a2	b	b1	b2	d	d1	d2	n1xp	n2xp
AATZB 400 ATEX	236	117	151	187	185	219	255	-	1x112
AATZB 450 ATEX	255	131	165	201	205	241	275	-	1x112
AATZB 500 ATEX	277	148	182	218	228	265	298	1x112	1x112
AATZB 560 ATEX	301	166	200	236	255	292	325	1x112	1x112

Model	Ø3	Ø4	ØV
AATZB 400 ATEX	14	14	28
AATZB 450 ATEX	14	14	38
AATZB 500 ATEX	14	14	38
AATZB 560 ATEX	17	17	42



Model	A	B	C	D	D1	D2	D3	D4	D5
AATZB 630 ATEX	105	905	940	425	545	493	515	472	440
AATZB 710 ATEX	115	1035	1045	475	610	547	570	522	493
AATZB 800 ATEX	127	1070	1170	530	682	622	640	592	555
AATZB 900 ATEX	140	1240	1315	600	763	696	715	668	628
AATZB 1000 ATEX	163	1435	1460	670	849	805	790	765	691
AATZB 1120 ATEX	177	1465	1630	750	951	898	880	857	770
AATZB 1250 ATEX	331	1500	1815	840	1059	998	975	944	864

Model	D6	D7	E	F	G	H1	H2	I	L
AATZB 630 ATEX	438	688	1000	381	98	425	560	477	33
AATZB 710 ATEX	489	767	1123	426	-	475	630	551	39
AATZB 800 ATEX	545	854	1265	481	-	530	710	551	39
AATZB 900 ATEX	617	963	1428	542	-	600	800	607	45
AATZB 1000 ATEX	640	1074	1591	607	-	670	900	760	45
AATZB 1120 ATEX	713	1202	1770	684	-	750	860	760	45
AATZB 1250 ATEX	802	1343	1984	765	-	840	960	760	45

Model	L1	M	N	N1xØ1	N2xØ2	N3	N4	O	O2
AATZB 630 ATEX	-	560	50	8xM8x25	10x12	-	-	-	-
AATZB 710 ATEX	20	300	-	8xM8x25	10x12	63	32	526	1010
AATZB 800 ATEX	30	325	-	8xM8x25	10x12	93	32	526	1040
AATZB 900 ATEX	45	354	-	12xM8x25	10x12	116	36	663	1065
AATZB 1000 ATEX	50	426	-	12xM8x25	14x12	112.5	55	850	1250
AATZB 1120 ATEX	55	447	-	12xM8x25	14x12	106	45	1178	1066
AATZB 1250 ATEX	55	486	-	12xM8x25	14x12	110	45	1310	1230

Model	O6	P	Q	S	S1	S2	S3	S4	S5
AATZB 630 ATEX	364	418	543	515	440	425	-	688	545
AATZB 710 ATEX	292	590	629	570	493	489	475	767	610
AATZB 800 ATEX	324	590	629	640	555	545	530	854	682
AATZB 900 ATEX	363	735	697	715	628	617	600	963	763
AATZB 1000 ATEX	404	960	850	790	691	640	670	1074	849
AATZB 1120 ATEX	452	1268	850	880	770	713	750	1202	951
AATZB 1250 ATEX	503	1400	1010	975	864	802	840	1343	1059

Model	S6	S7	T	U	W	X	X1	X2	X3
AATZB 630 ATEX	493	472	1250	160	832	440	425	688	545
AATZB 710 ATEX	547	522	-	180	1600	493	475	767	610
AATZB 800 ATEX	622	592	-	180	1600	555	530	854	682
AATZB 900 ATEX	696	668	-	200	1800	628	600	963	763
AATZB 1000 ATEX	805	765	-	200	2200	691	670	1074	849
AATZB 1120 ATEX	898	857	-	220	2334	770	750	1202	951
AATZB 1250 ATEX	998	944	-	220	2630	864	840	1343	1059

Model	X4	X4X	X5	X6	X7	Y	Z	a	a1
AATZB 630 ATEX	493	-	515	472	438	-	-	258	292
AATZB 710 ATEX	-	547	570	522	489	570	910	288	332

Model	X4	X4X	X5	X6	X7	Y	Z	a	a1
AATZB 800 ATEX	-	622	640	592	545	600	945	322	366
AATZB 900 ATEX	-	696	715	668	617	663	1051	361	405
AATZB 1000 ATEX	-	805	790	765	640	780	1281	404	448
AATZB 1120 ATEX	-	898	880	857	713	1178	1307	453	497
AATZB 1250 ATEX	-	998	975	944	802	1310	1346	507	551

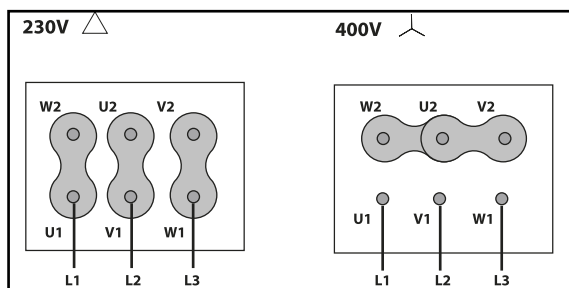
Model	a2	b	b1	b2	d	d1	d2	n1xp	n2xp
AATZB 630 ATEX	328	185	219	255	285	332	370	1x112	2x112
AATZB 710 ATEX	368	205	249	285	320	366	405	1x125	2x125
AATZB 800 ATEX	402	229	273	309	360	405	445	1x125	2x125
AATZB 900 ATEX	441	256	300	336	405	448	490	1x125	2x125
AATZB 1000 ATEX	484	288	332	368	455	497	540	2x125	3x125
AATZB 1120 ATEX	533	322	366	402	505	551	590	2x125	3x125
AATZB 1250 ATEX	587	361	405	441	565	629	670	2x125	3x125

Model	Ø3	Ø4	ØV
AATZB 630 ATEX	17	17	48
AATZB 710 ATEX	19	20	48
AATZB 800 ATEX	19	20	55
AATZB 900 ATEX	19	20	65
AATZB 1000 ATEX	24	24	75
AATZB 1120 ATEX	24	24	75
AATZB 1250 ATEX	24	30	75

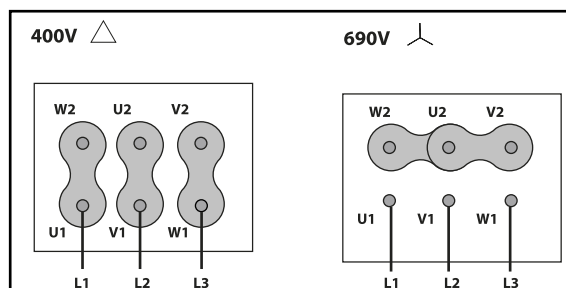
Wiring diagram

Wiring diagram N° 1

230/400V



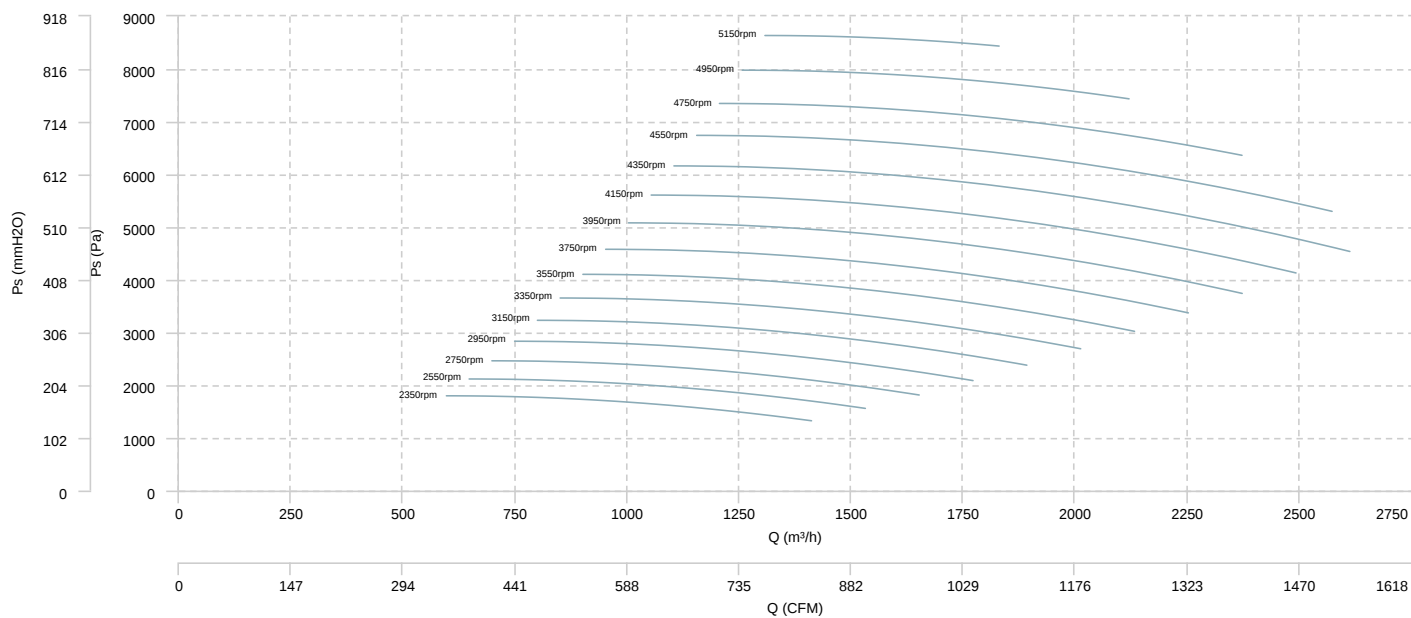
400/690V



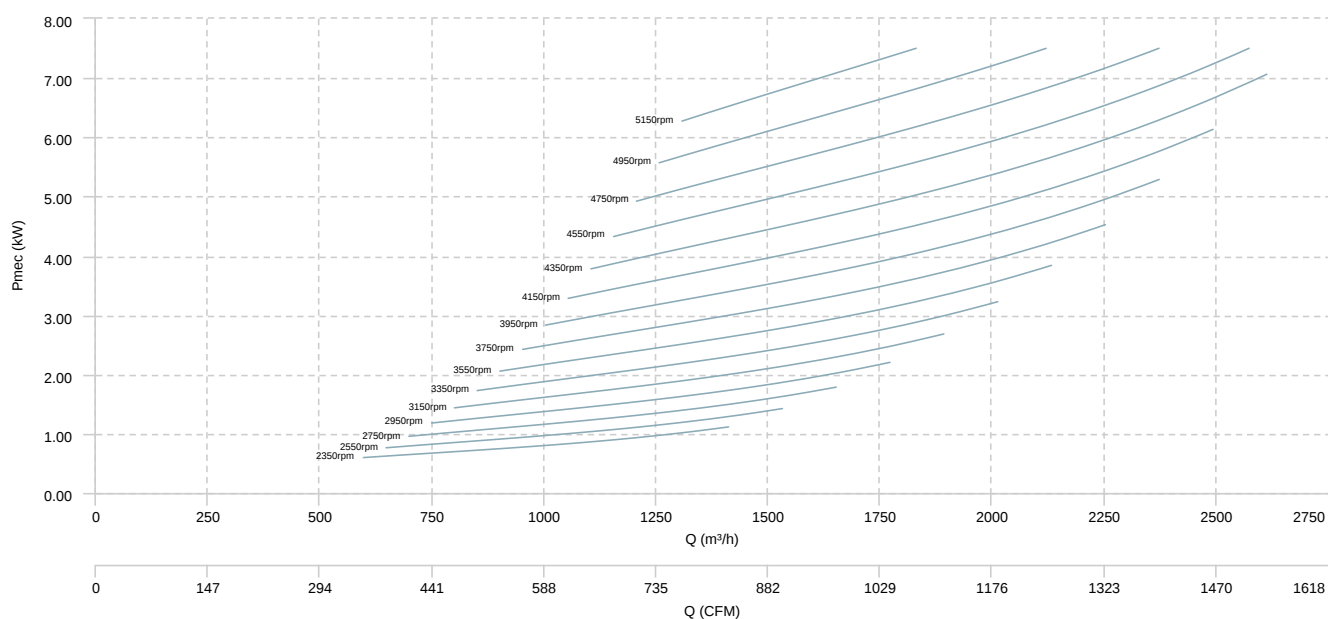
CHARACTERISTIC CURVE

AATZB 400 ATEX

AIR FLOW - PRESSURE

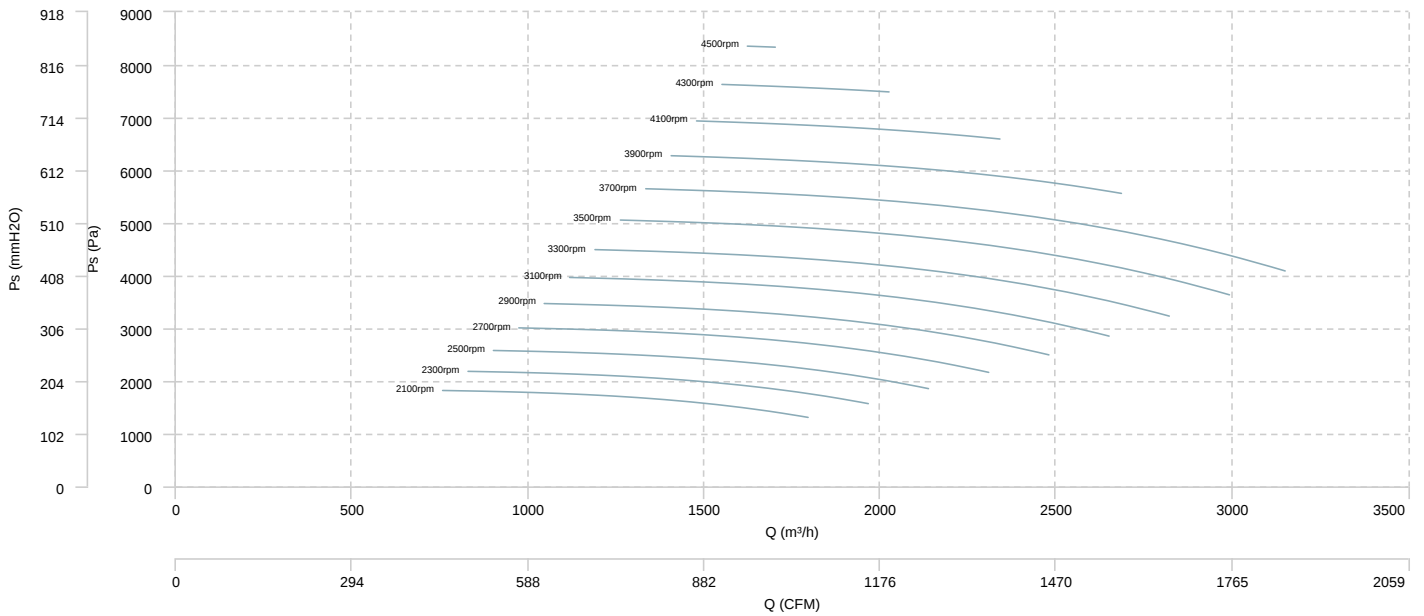


AIR FLOW - MECHANICAL POWER

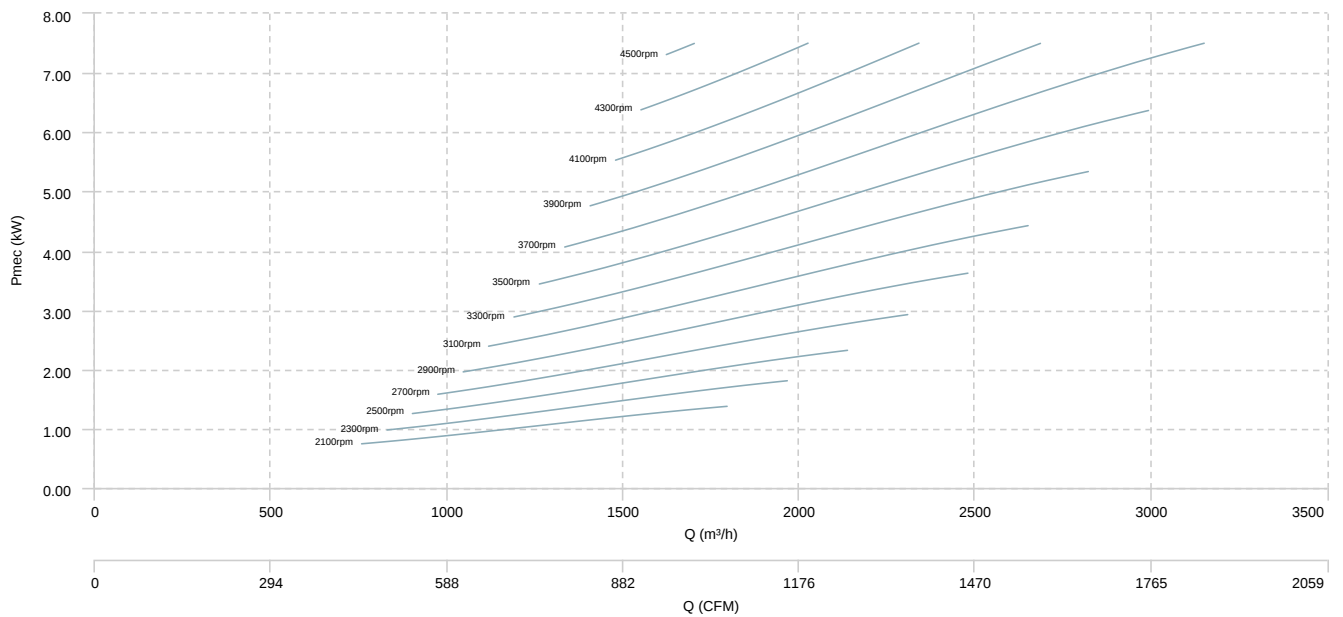


AATZB 450 ATEX

AIR FLOW - PRESSURE

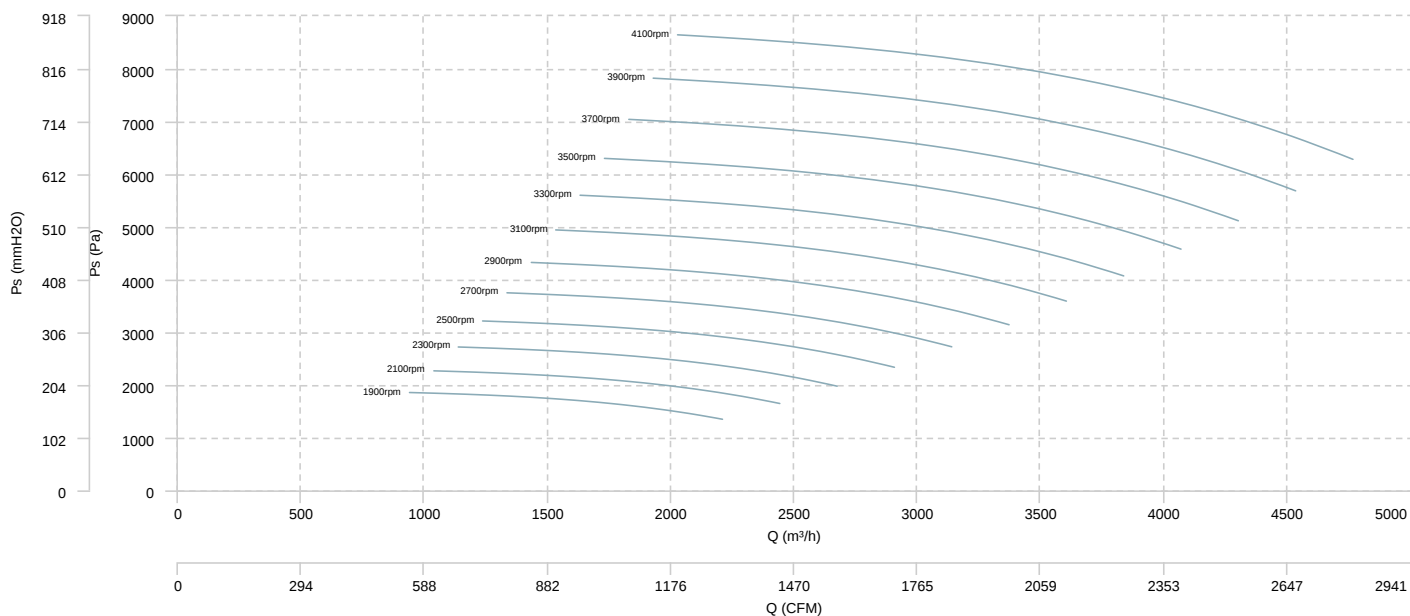


AIR FLOW - MECHANICAL POWER

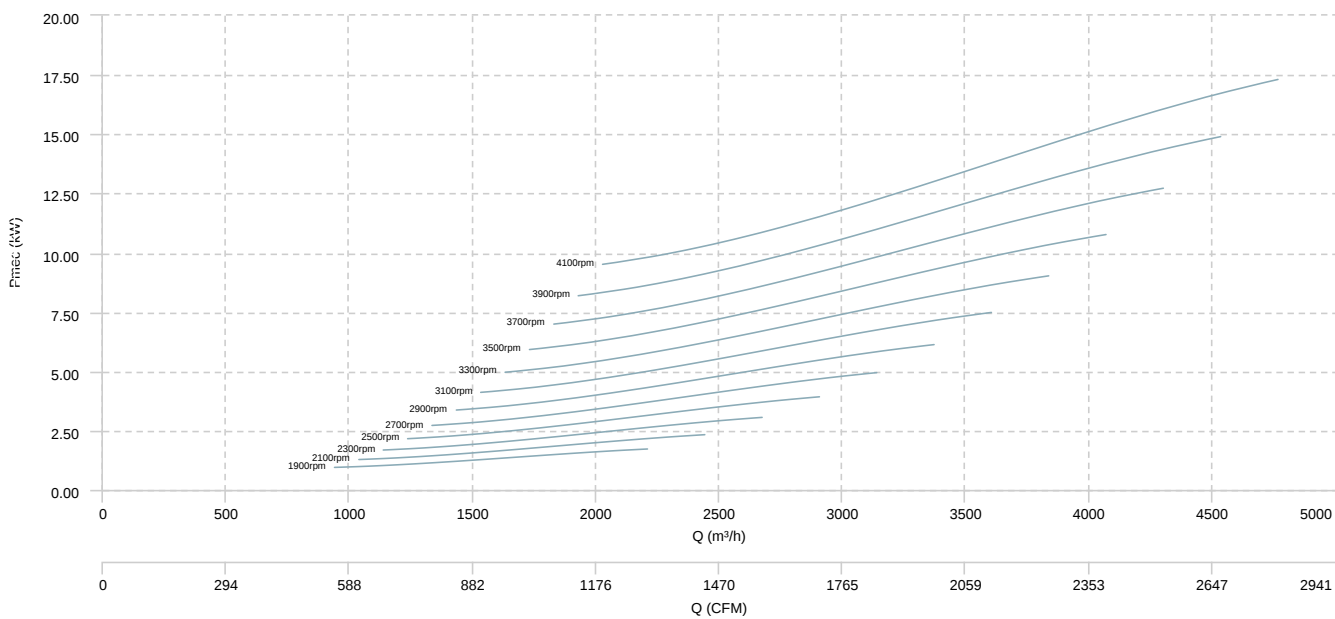


AATZB 500 ATEX

AIR FLOW - PRESSURE

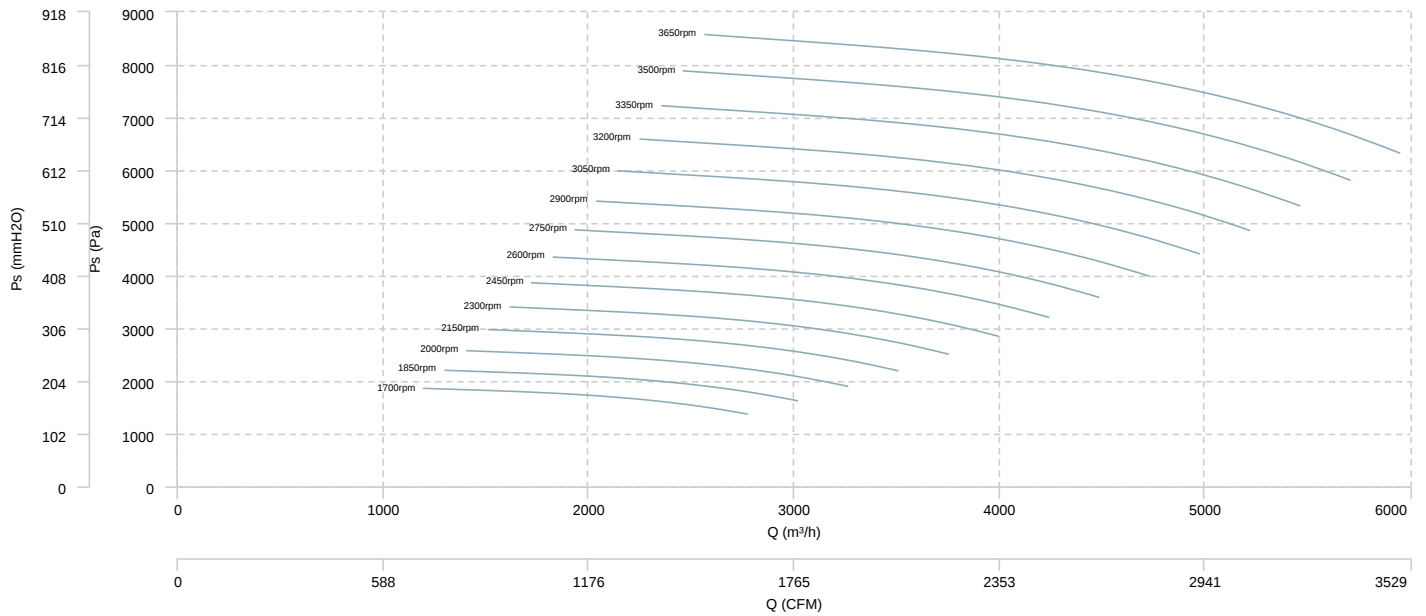


AIR FLOW - MECHANICAL POWER

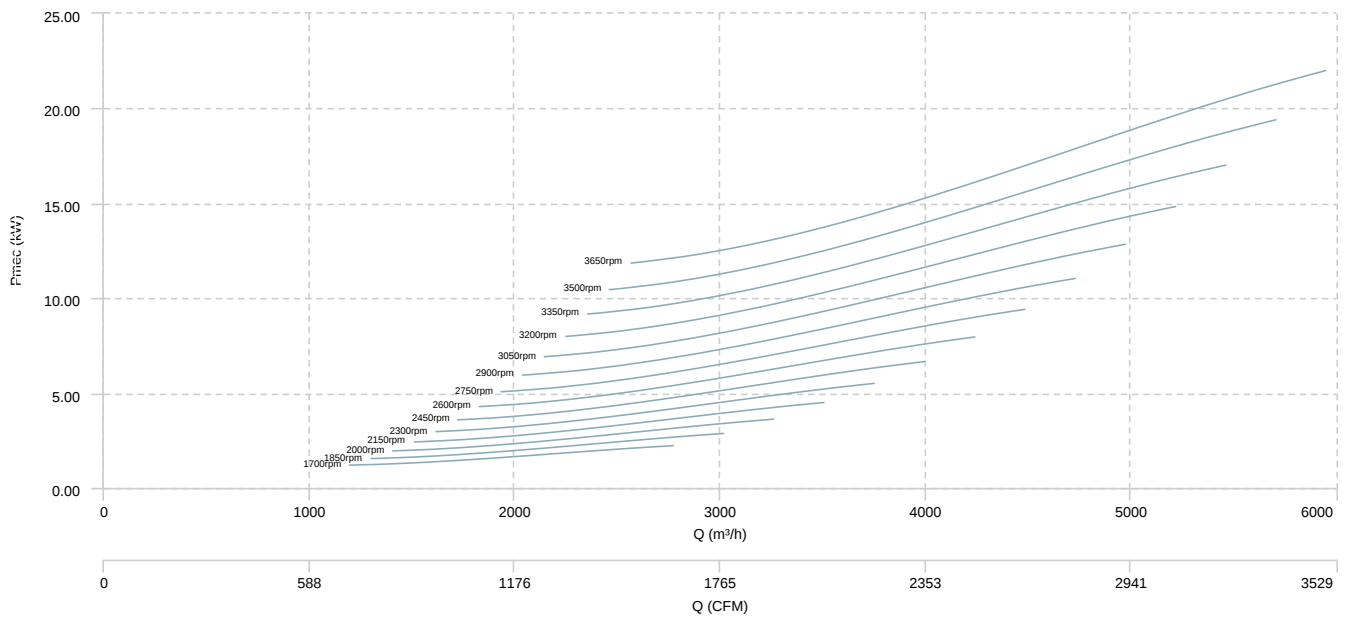


AATZB 560 ATEX

AIR FLOW - PRESSURE

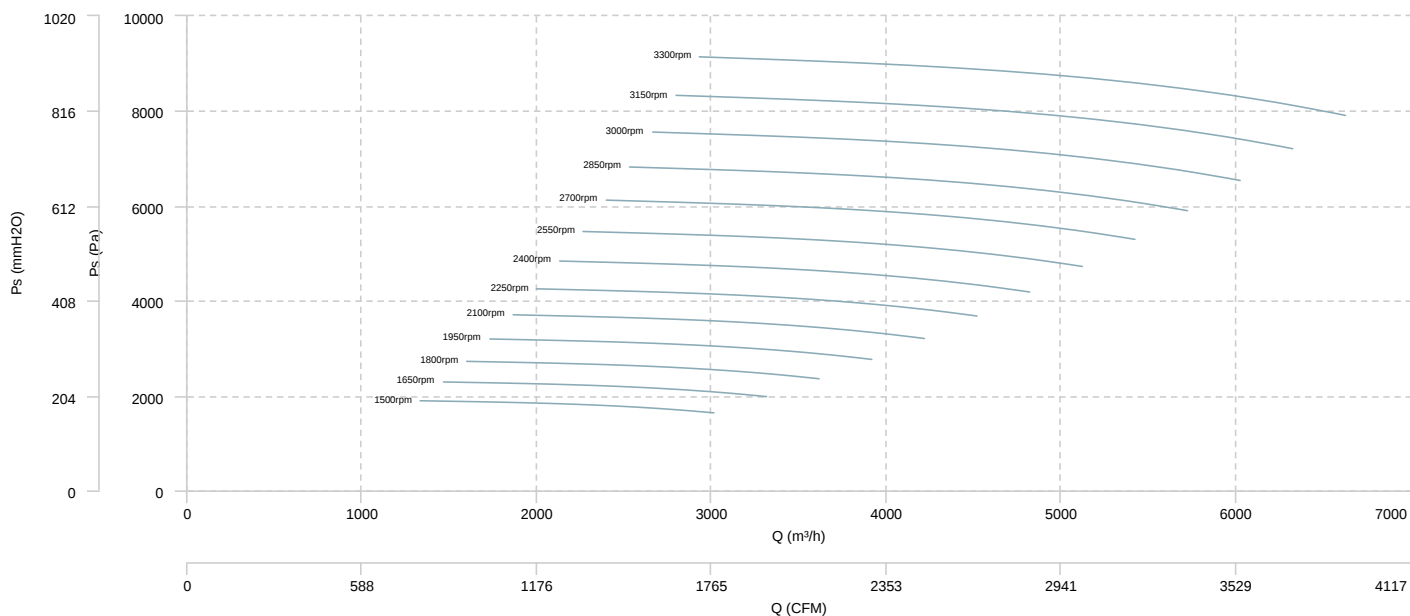


AIR FLOW - MECHANICAL POWER

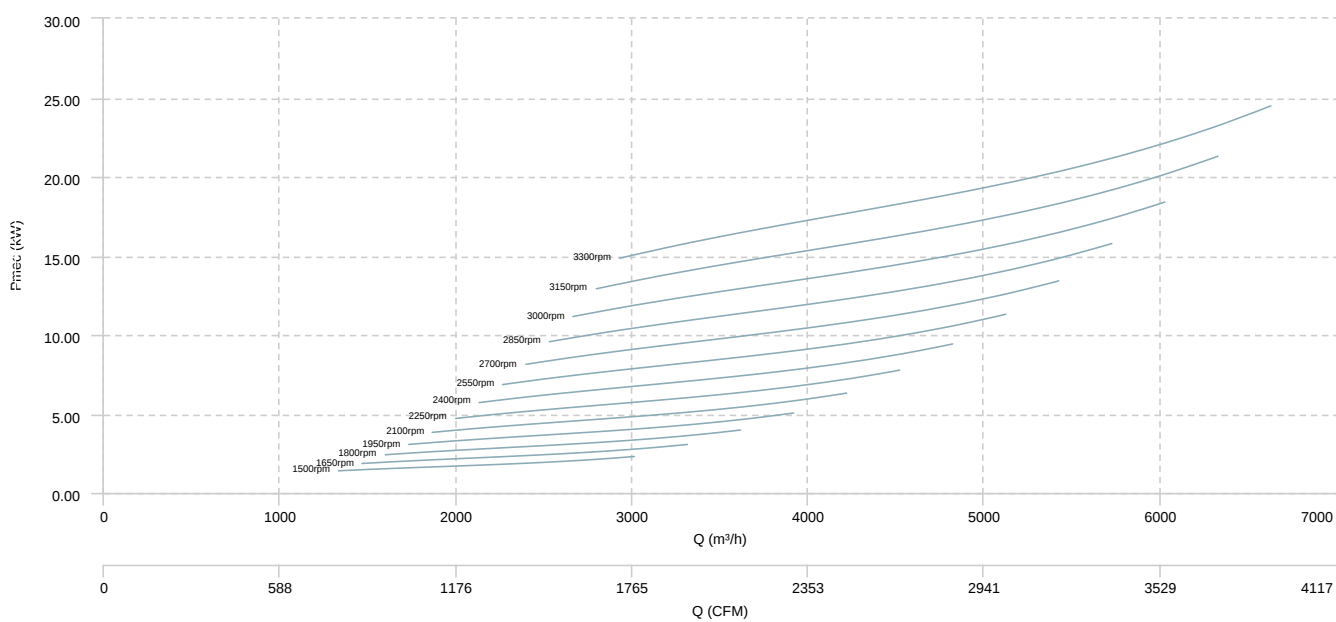


AATZB 630 ATEX

AIR FLOW - PRESSURE

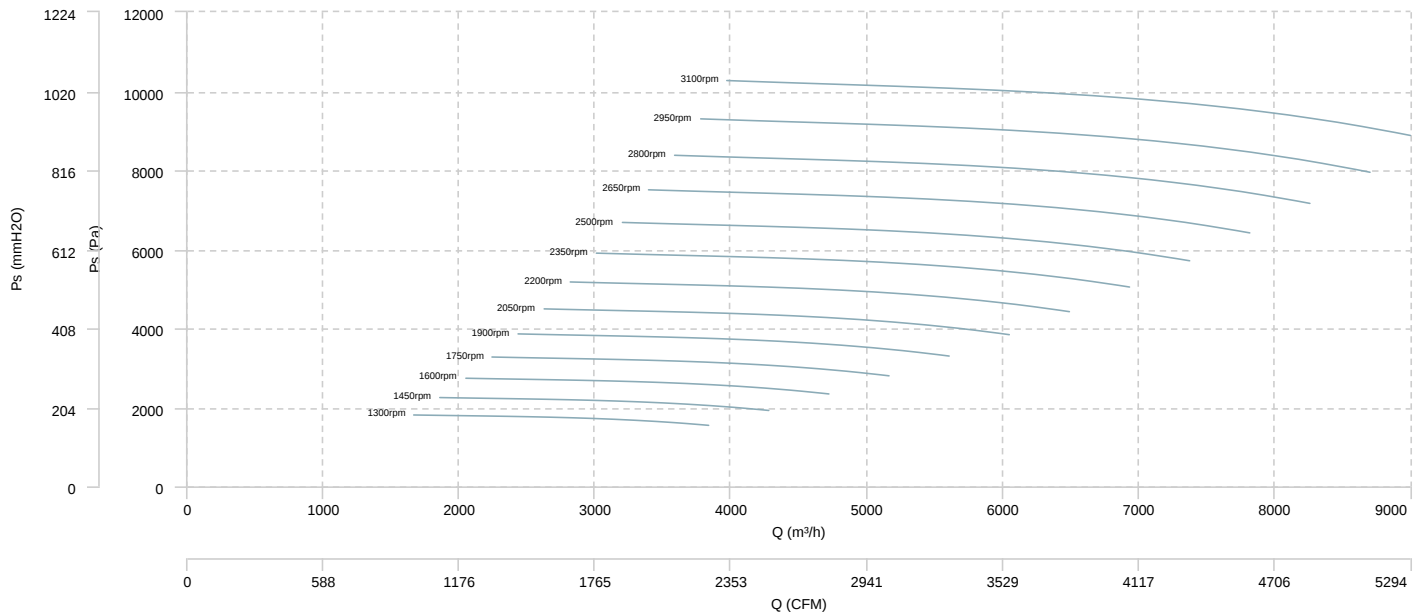


AIR FLOW - MECHANICAL POWER

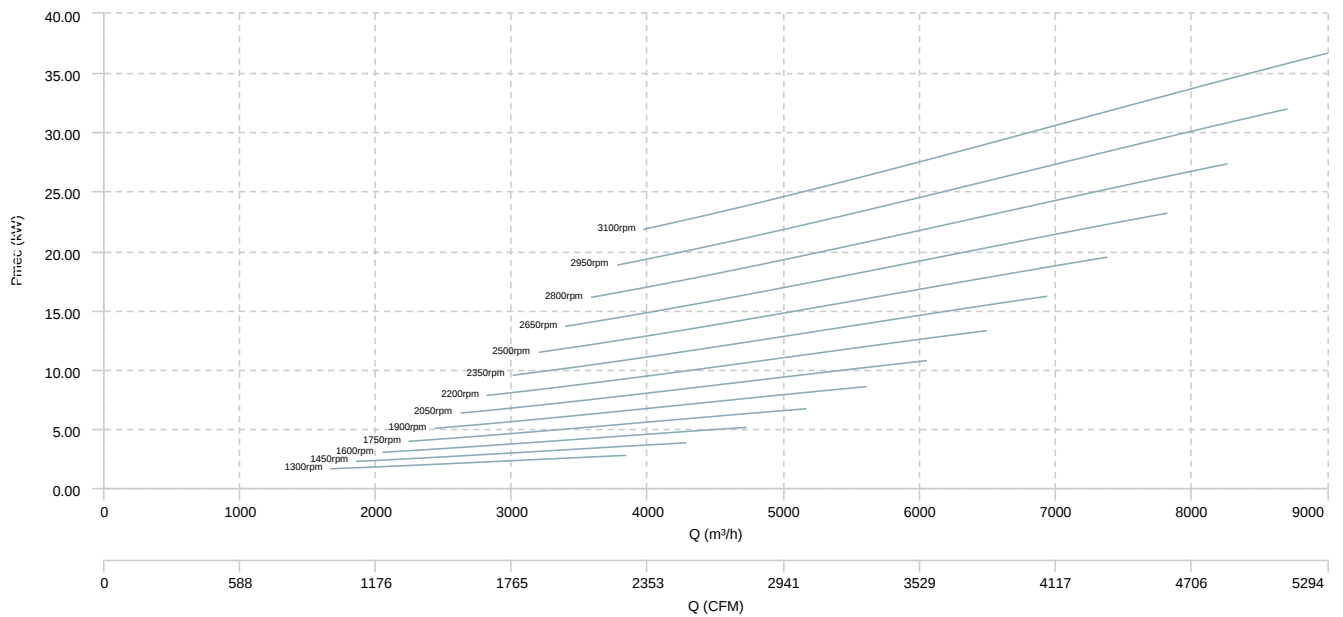


AATZB 710 ATEX

AIR FLOW - PRESSURE

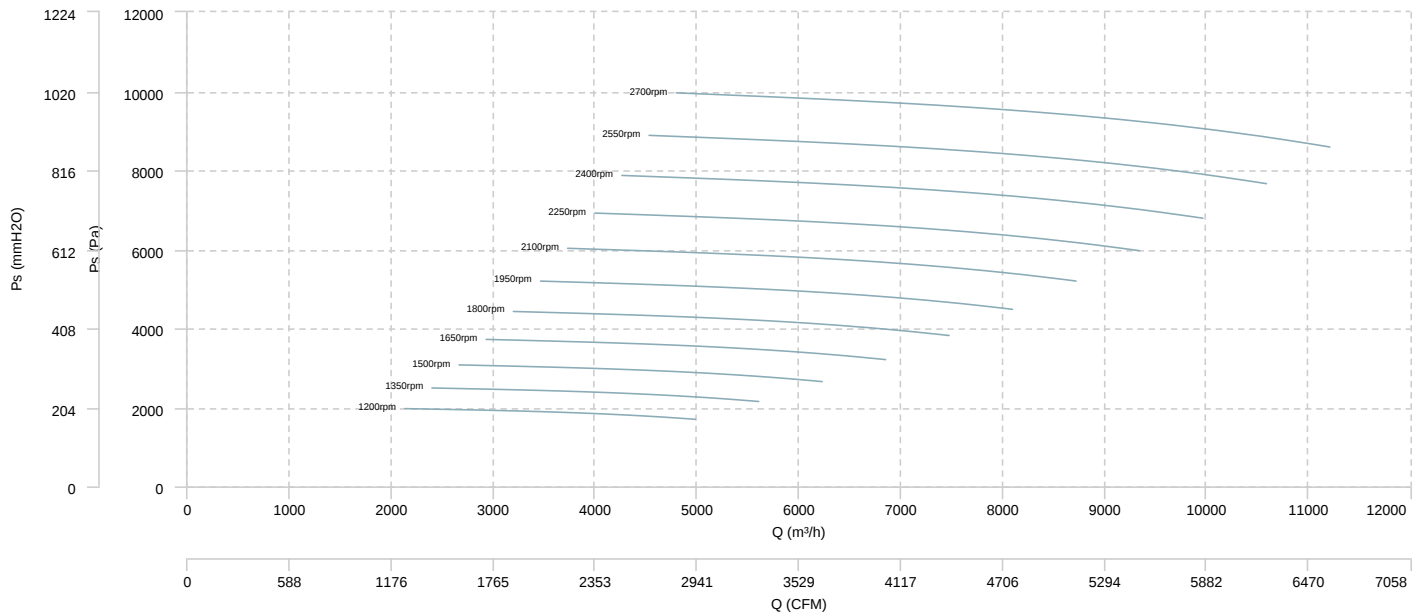


AIR FLOW - MECHANICAL POWER

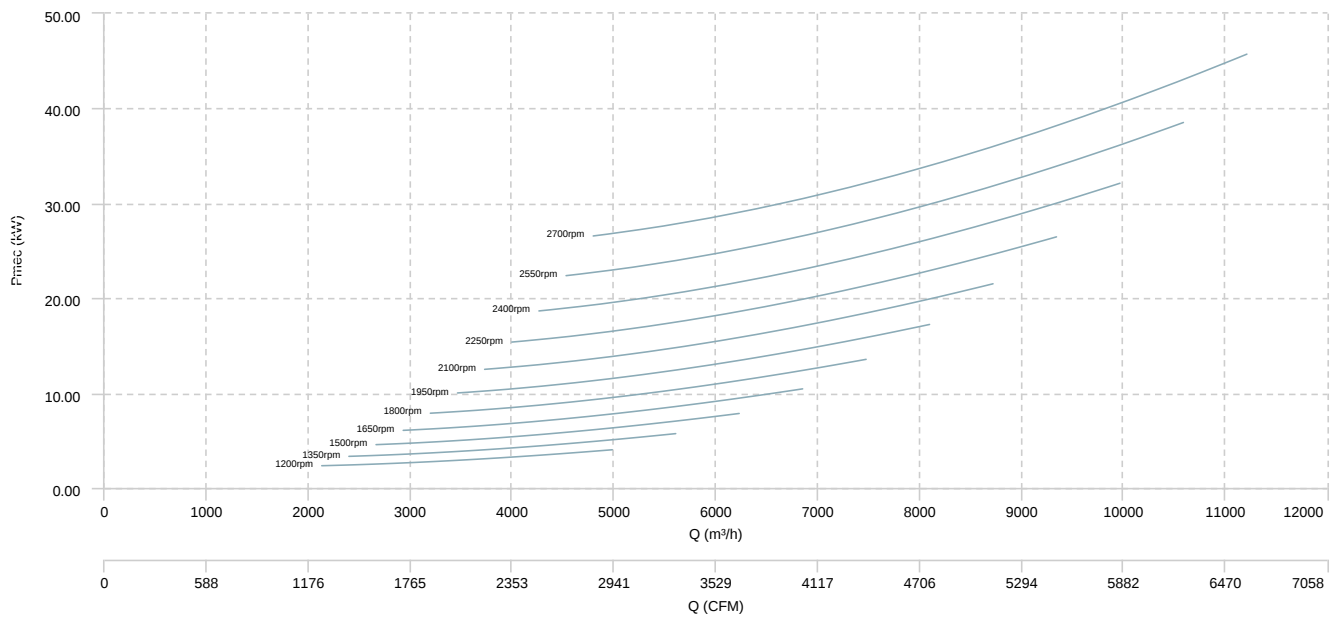


AATZB 800 ATEX

AIR FLOW - PRESSURE

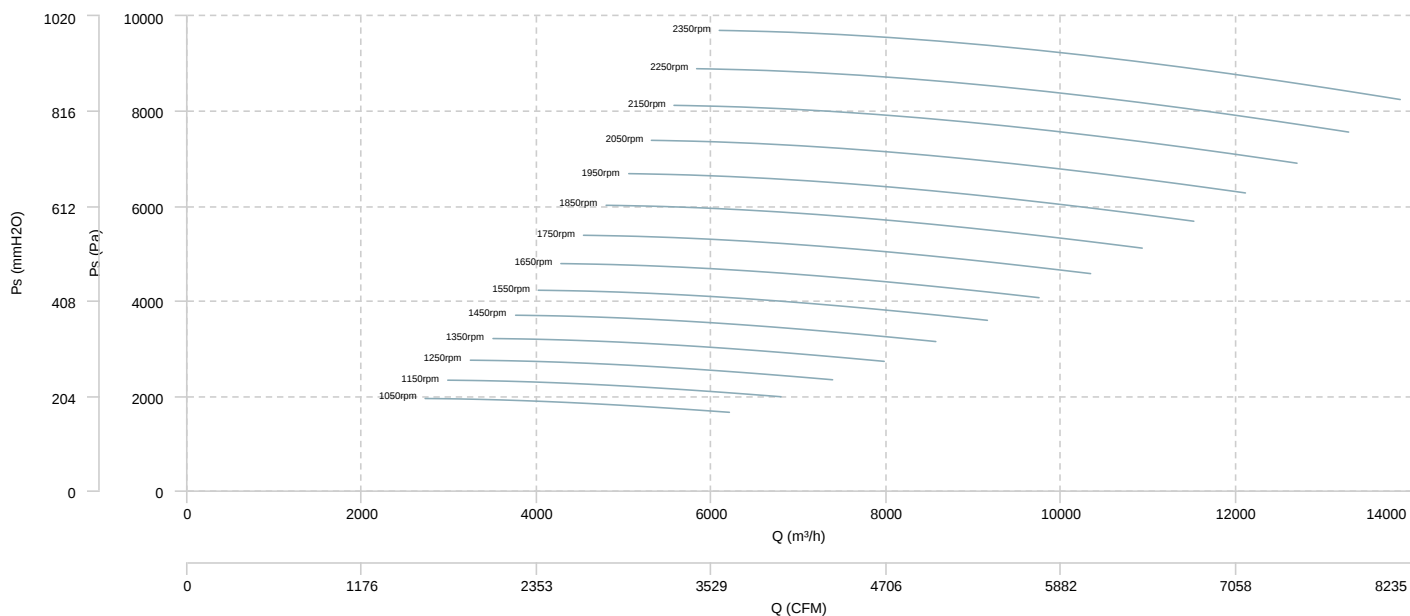


AIR FLOW - MECHANICAL POWER

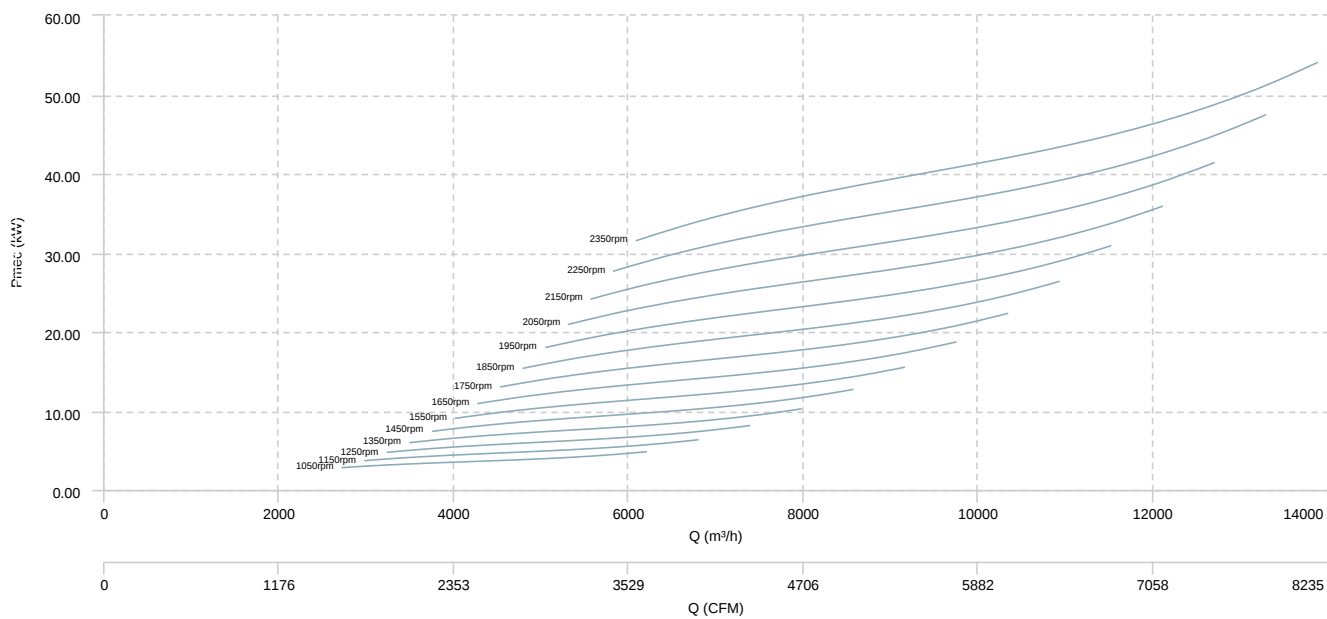


AATZB 900 ATEX

AIR FLOW - PRESSURE

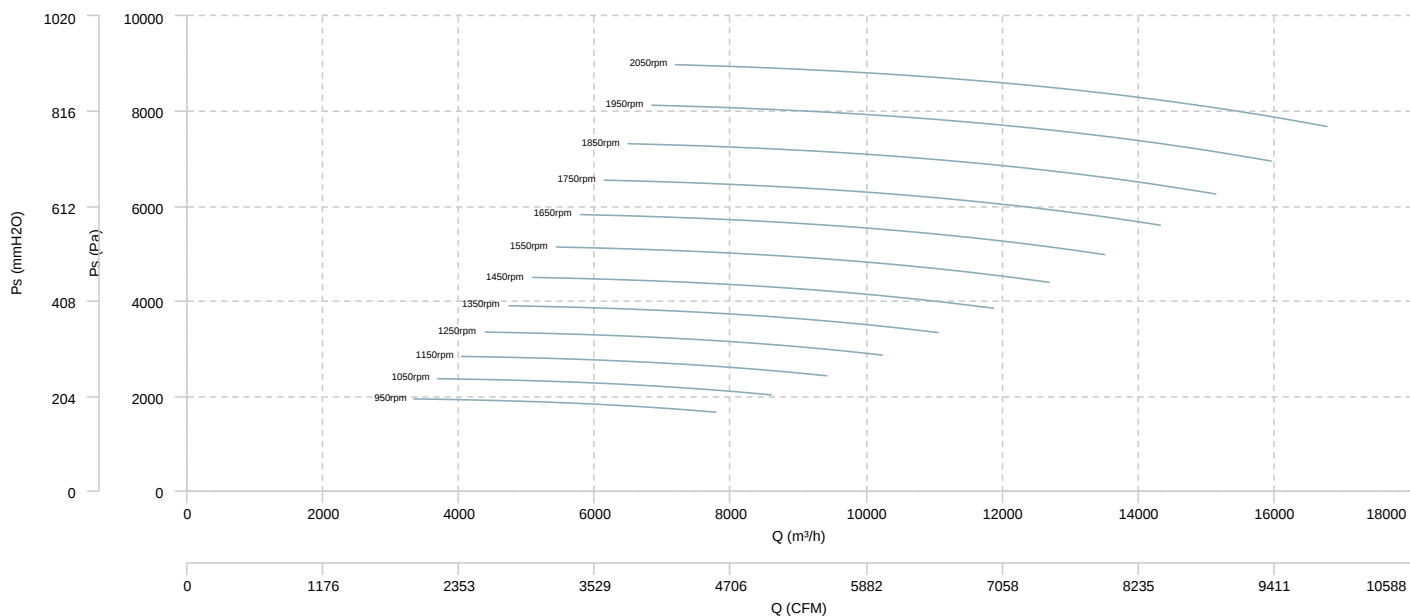


AIR FLOW - MECHANICAL POWER

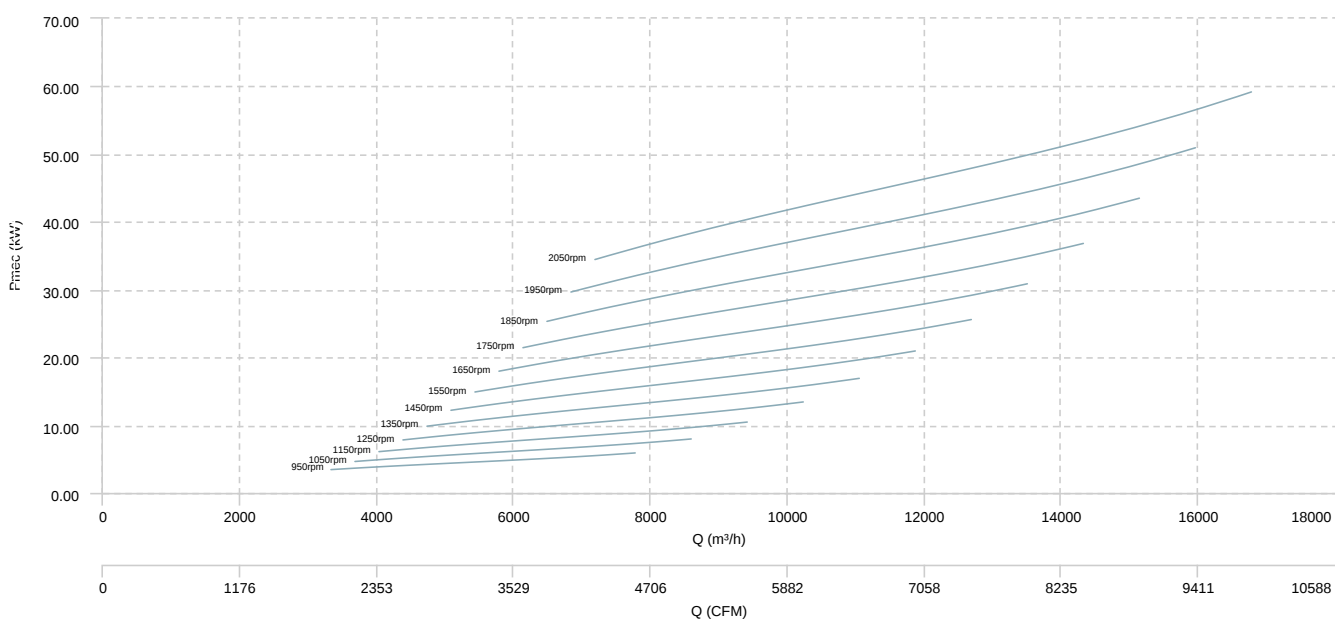


AATZB 1000 ATEX

AIR FLOW - PRESSURE

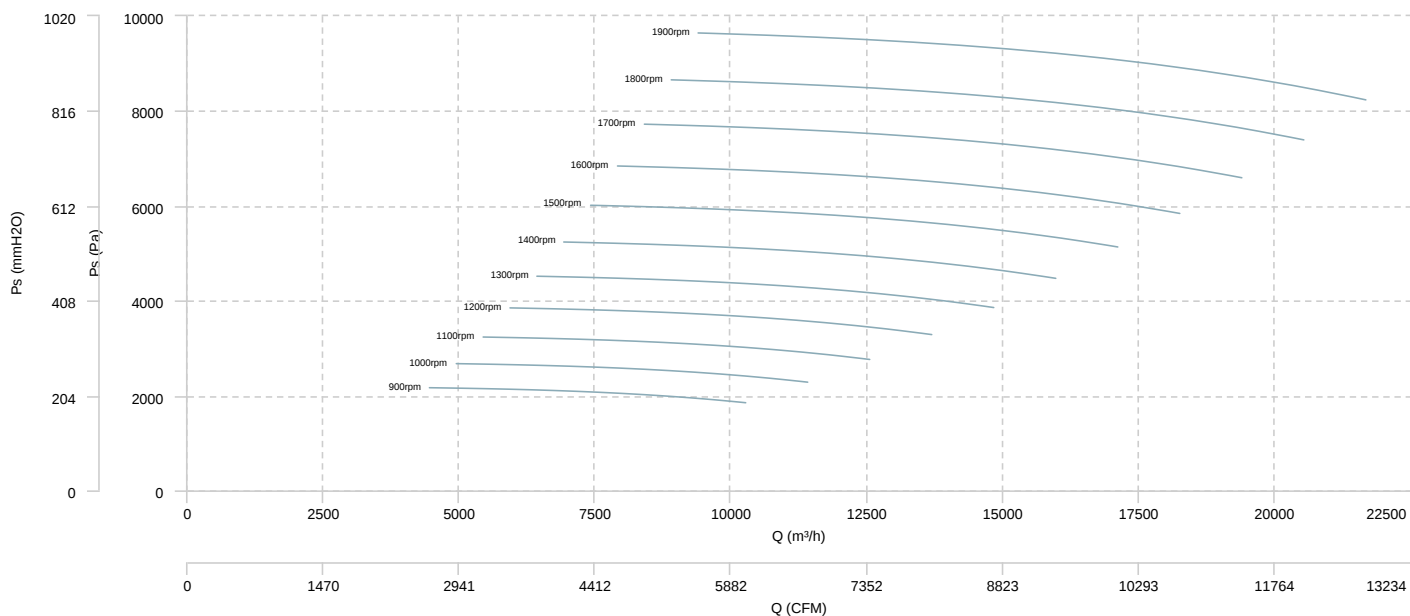


AIR FLOW - MECHANICAL POWER

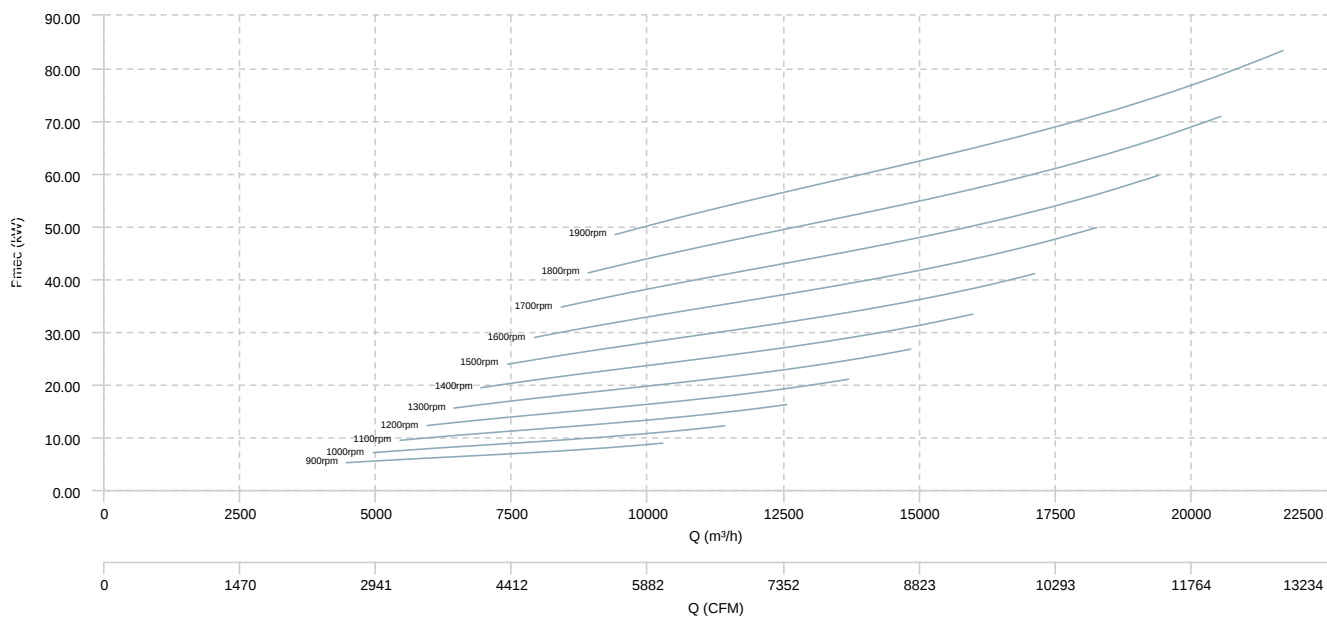


AATZB 1120 ATEX

AIR FLOW - PRESSURE

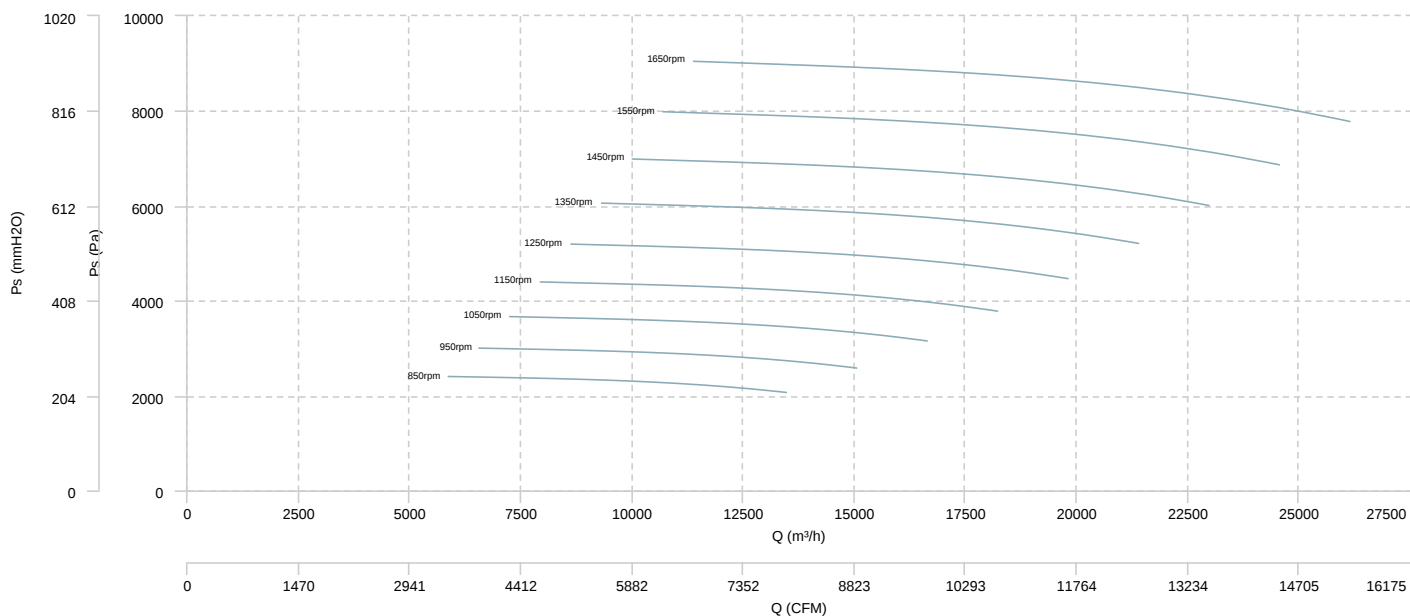


AIR FLOW - MECHANICAL POWER

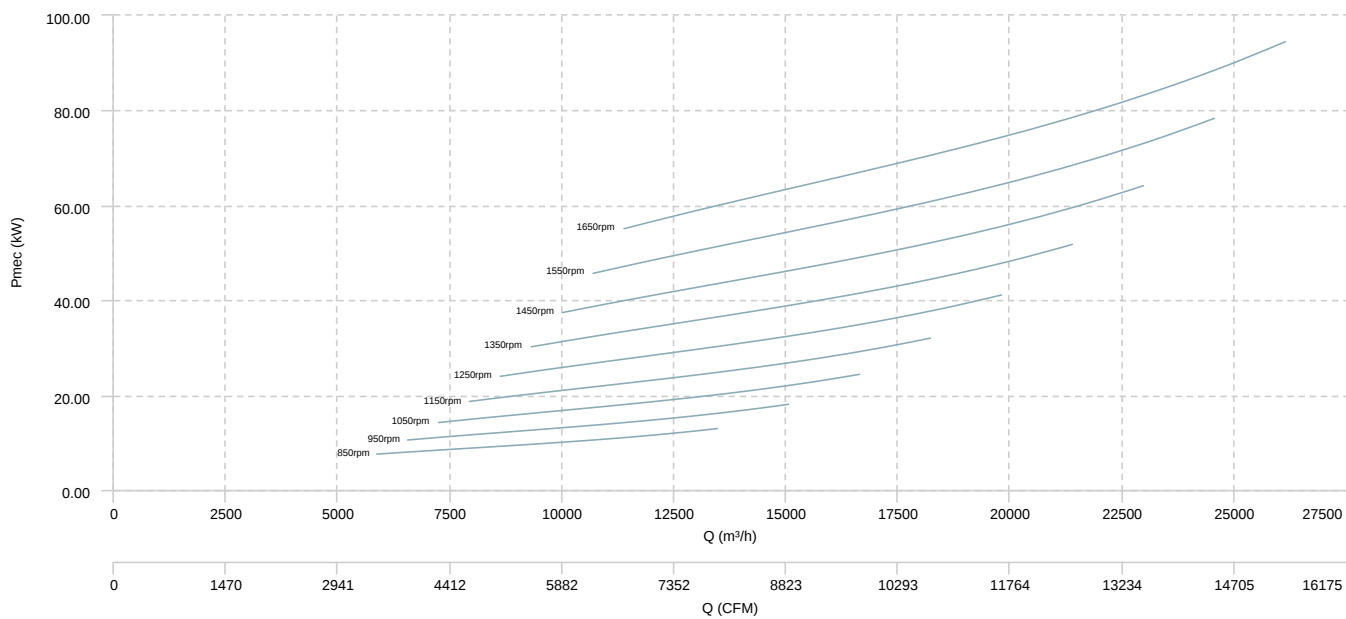


AATZB 1250 ATEX

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
AATZB 400 ATEX (2350rpm)	Inlet	55	67	74	78	79	74	68	58	83
AATZB 450 ATEX (2100rpm)	Inlet	56	68	74	78	79	75	68	58	84
AATZB 500 ATEX (1900rpm)	Inlet	57	69	75	80	80	76	69	60	85
AATZB 560 ATEX (1700rpm)	Inlet	55	67	73	78	78	74	67	58	83
AATZB 630 ATEX (1500rpm)	Inlet	54	66	72	76	77	72	66	56	81
AATZB 710 ATEX (1300rpm)	Inlet	54	66	72	76	77	73	66	56	81
AATZB 800 ATEX (1200rpm)	Inlet	64	76	82	86	87	82	76	66	91
AATZB 900 ATEX (1050rpm)	Inlet	59	71	77	81	82	77	71	61	86
AATZB 1000 ATEX (950rpm)	Inlet	59	71	77	81	82	78	71	61	87
AATZB 1120 ATEX (900rpm)	Inlet	61	73	79	83	84	79	73	63	88
AATZB 1250 ATEX (850rpm)	Inlet	61	73	79	83	84	80	73	63	88

Notes:

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

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