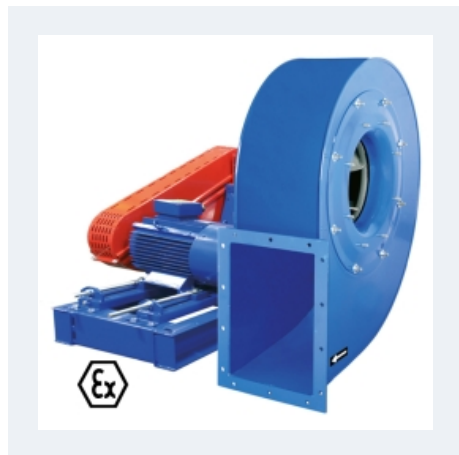


AATVM ATEX



ATEX HIGH PRESSURE WITH BACKWARD IMPELLER AND BELT TRANSMISSION

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.
- High efficiency simple inlet backward impeller with self-cleaning system 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 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.
- 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 slightly 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



RI



SFC

Technical data

Three-phase motor

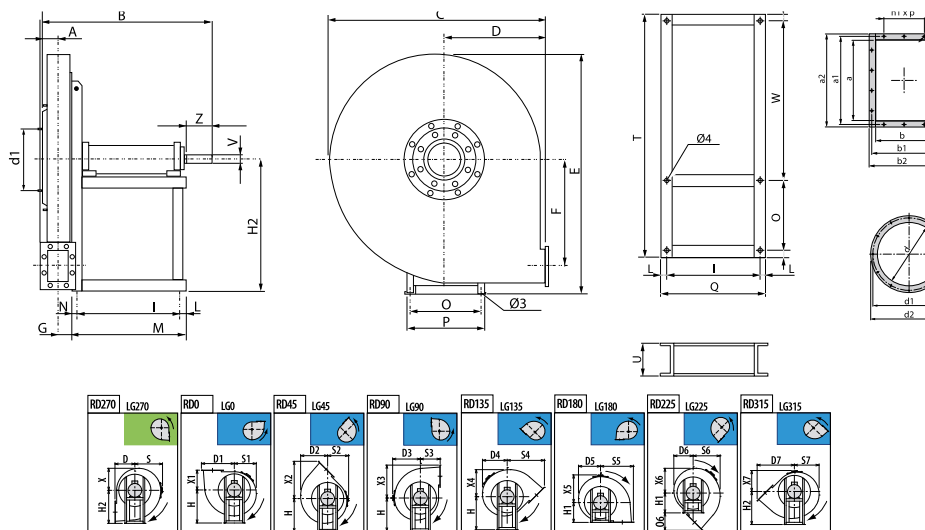
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	AATVM 350 ATEX	2000rpm - 3500rpm	0,37	3,00	1.760	59	35	1
	AATVM 400 ATEX	2000rpm - 3500rpm	0,55	7,50	2.210	61	52	1
	AATVM 450 ATEX	1800rpm - 3500rpm	1,10	7,50	3.720	65	76	1
	AATVM 500 ATEX	1800rpm - 3500rpm	2,20	18,50	4.820	67	91	1
	AATVM 560 ATEX	1600rpm - 3500rpm	3,00	22,00	7.850	72	118	1
	AATVM 630 ATEX	1600rpm - 3500rpm	5,50	37,00	10.640	72	160	1
	AATVM 710 ATEX	1450rpm - 3500rpm	5,50	45,00	13.580	77	237	1
	AATVM 800 ATEX	1450rpm - 3450rpm	7,50	55,00	16.980	79	285	1
	AATVM 900 ATEX	1250rpm - 3200rpm	15,00	90,00	23.750	78	437	1
	AATVM 1000 ATEX	1250rpm - 3200rpm	7,50	200,00	35.570	81	690	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
AATVM 350 ATEX	65	555	565	250	323	287	315	280	262
AATVM 400 ATEX	71	710	620	280	356	314	340	302	284
AATVM 450 ATEX	78	745	675	300	393	350	375	335	313
AATVM 500 ATEX	86	765	745	335	436	386	410	370	345
AATVM 560 ATEX	95	885	835	375	488	438	460	418	393
AATVM 630 ATEX	105	905	940	425	545	493	515	472	440

Model	D6	D7	E	F	G	H	H1	H2	I
AATVM 350 ATEX	272	405	617	215	56	355	250	355	284
AATVM 400 ATEX	293	450	659	238	63	375	280	375	407
AATVM 450 ATEX	319	490	713	265	70	400	300	400	407
AATVM 500 ATEX	350	546	795	297	78	450	335	450	407
AATVM 560 ATEX	392	613	893	337	88	500	375	500	477
AATVM 630 ATEX	438	688	1000	381	98	560	425	560	477

Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	Q
AATVM 350 ATEX	23	347	40	Nº8 M6x20	6x12	288	155	324	330
AATVM 400 ATEX	28	485	50	Nº8 M6x20	6x12	355	170	400	463
AATVM 450 ATEX	28	485	50	Nº8 M6x20	6x12	355	190	400	463
AATVM 500 ATEX	28	485	50	Nº8 M8x25	8x12	355	211	400	463

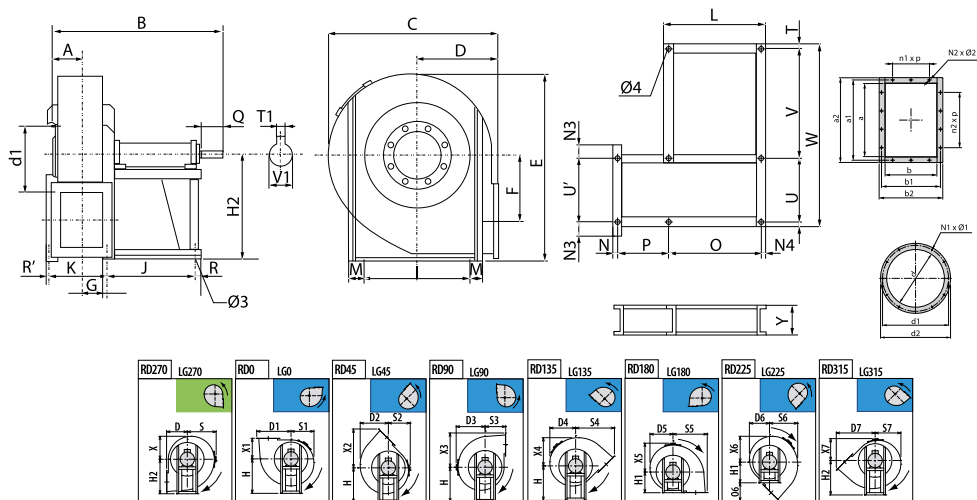
Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	Q
AATVM 560 ATEX	33	560	50	Nº8 M8x25	8x12	364	238	418	543
AATVM 630 ATEX	33	560	50	Nº8 M8x25	10x12	364	263	418	543

Model	R	S	S1	S2	S3	S4	S5	S6	S7
AATVM 350 ATEX	18	315	262	272	250	405	323	287	280
AATVM 400 ATEX	23	340	284	293	280	450	356	314	302
AATVM 450 ATEX	23	375	313	319	300	490	393	350	335
AATVM 500 ATEX	23	410	345	350	335	546	436	386	370
AATVM 560 ATEX	27	460	393	392	375	613	488	438	418
AATVM 630 ATEX	27	515	440	438	425	688	545	493	472

Model	T	U	V	W	X	X1	X2	X3	X4
AATVM 350 ATEX	900	100	24	576	262	250	405	323	287
AATVM 400 ATEX	1060	120	28	660	284	280	450	356	314
AATVM 450 ATEX	1060	120	38	660	313	300	490	393	350
AATVM 500 ATEX	1180	120	38	780	345	335	546	436	386
AATVM 560 ATEX	1250	160	42	832	393	375	613	488	438
AATVM 630 ATEX	1250	160	48	832	440	425	688	545	493

Model	X5	X6	X7	Z	a	a1	a2	b	b1
AATVM 350 ATEX	315	280	272	50	146	182	216	105	139
AATVM 400 ATEX	340	302	293	60	166	200	236	117	151
AATVM 450 ATEX	375	335	319	80	185	219	255	131	165
AATVM 500 ATEX	410	370	350	80	207	241	277	148	182
AATVM 560 ATEX	460	418	392	110	231	265	301	166	200
AATVM 630 ATEX	515	472	438	110	258	292	328	185	219

Model	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVM 350 ATEX	175	185	219	250	-	1x112	12	12
AATVM 400 ATEX	187	205	241	275	-	1x112	14	14
AATVM 450 ATEX	201	228	265	298	-	1x112	14	14
AATVM 500 ATEX	218	255	292	325	1x112	1x112	14	14
AATVM 560 ATEX	236	285	332	365	1x112	1x112	17	17
AATVM 630 ATEX	255	320	366	400	1x112	1x112	17	17



Model	A	B	C	D	D1	D2	D3	D4	D5
AATVM 710 ATEX	115	1035	1045	475	610	547	570	522	493
AATVM 800 ATEX	127	1070	1170	530	682	622	640	592	555
AATVM 900 ATEX	140	1240	1315	600	763	696	715	668	628
AATVM 1000 ATEX	160	1435	1460	670	849	805	790	765	691

Model	D6	D7	E	F	G	H	H1	H2	I
AATVM 710 ATEX	489	767	1123	426	160	630	475	550	526
AATVM 800 ATEX	545	854	1265	481	192,5	710	530	620	526
AATVM 900 ATEX	617	963	1428	542	222	800	600	695	663
AATVM 1000 ATEX	640	1074	1591	607	263	900	670	770	850

Model	J	K	L	M	N	N1xØ1	N2xØ2	N3	N4
AATVM 710 ATEX	551	300	629	32	20	Nº8 M8x25	10x12	63	39
AATVM 800 ATEX	551	325	629	32	30	Nº12 M8x25	10x12	93	39
AATVM 900 ATEX	607	354	697	36	45	Nº12 M8x25	10x12	116	45
AATVM 1000 ATEX	760	426	850	55	50	Nº12 M8x25	14x12	112,5	45

Model	O	O6	P	Q	R	R'	S	S1	S2
AATVM 710 ATEX	551	262	300	110	39	20	570	493	489
AATVM 800 ATEX	551	324	325	110	39	30	640	555	545
AATVM 900 ATEX	607	363	354	140	45	45	715	628	617
AATVM 1000 ATEX	760	404	426	140	45	50	790	691	640

Model	S3	S4	S5	S6	S7	T	T1	U	U'
AATVM 710 ATEX	475	767	610	547	522	32	14	526	570
AATVM 800 ATEX	530	854	682	622	592	32	16	526	600
AATVM 900 ATEX	600	963	763	696	668	36	18	663	663
AATVM 1000 ATEX	670	1074	849	805	765	55	20	850	780

Model	V	V1	X	X1	X2	X3	X4	X5	X6
AATVM 710 ATEX	1010	48	493	475	767	610	547	570	522
AATVM 800 ATEX	1010	55	555	530	854	682	622	640	592
AATVM 900 ATEX	1065	65	628	600	963	763	696	715	668
AATVM 1000 ATEX	1240	75	691	670	1074	849	805	790	765

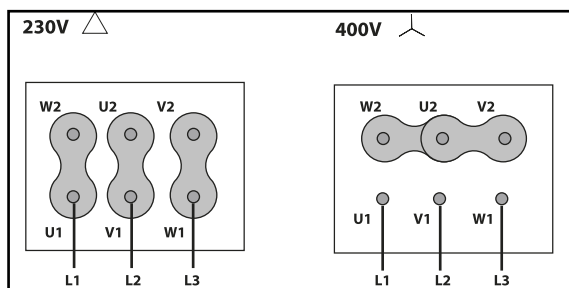
Model	X7	Y	a	a1	a2	b	b1	b2	d
AATVM 710 ATEX	489	180	288	332	368	205	249	285	360
AATVM 800 ATEX	545	180	322	366	402	229	273	309	405
AATVM 900 ATEX	617	200	361	405	441	256	300	336	455
AATVM 1000 ATEX	640	200	404	448	484	288	332	368	505

Model	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVM 710 ATEX	405	440	1x125	2x125	19	20
AATVM 800 ATEX	448	485	1x125	2x125	19	20
AATVM 900 ATEX	497	535	1x125	2x125	19	20
AATVM 1000 ATEX	551	585	2x125	3x125	24	25

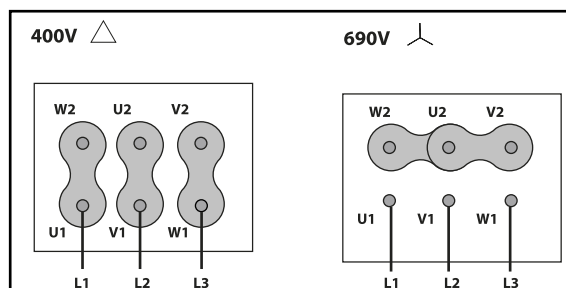
Wiring diagram

Wiring diagram Nº 1

230/400V



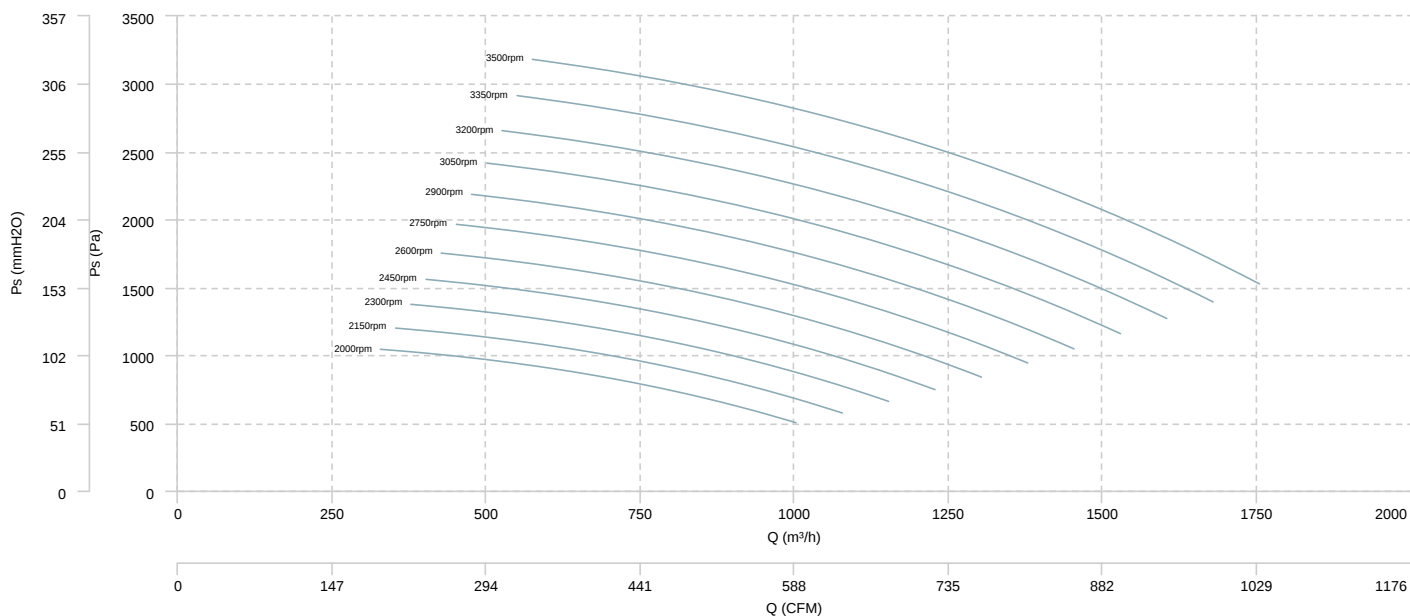
400/690V



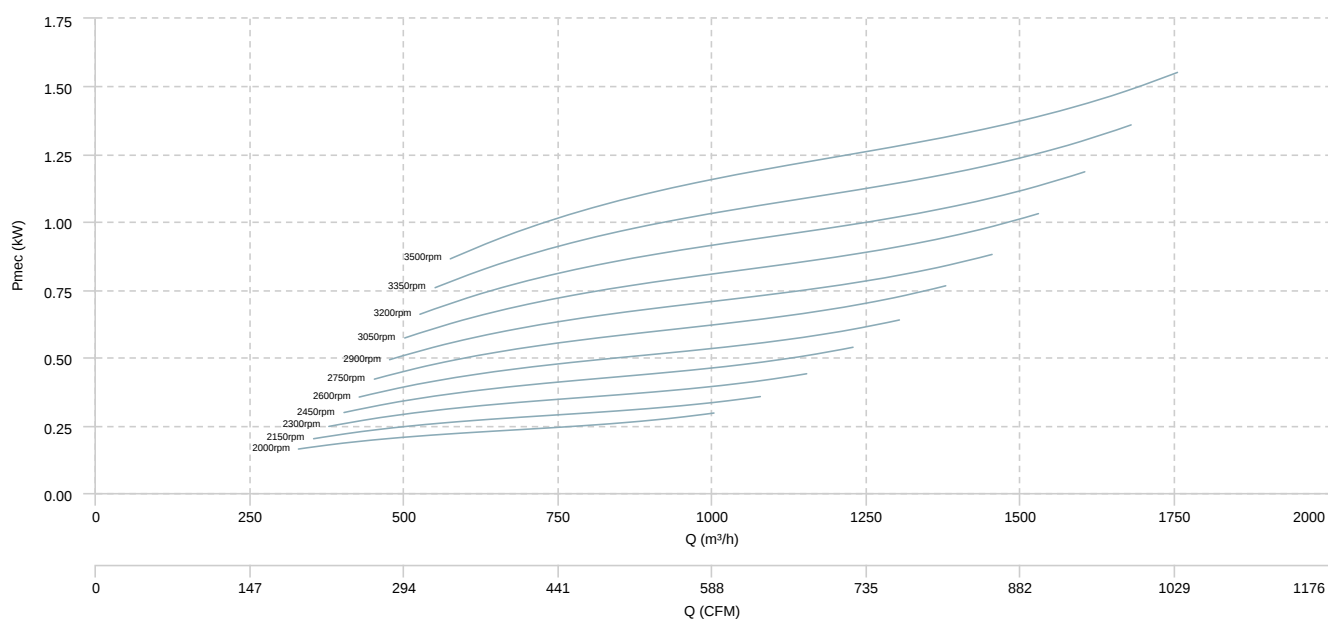
CHARACTERISTIC CURVE

AATVM 350 ATEX

AIR FLOW - PRESSURE

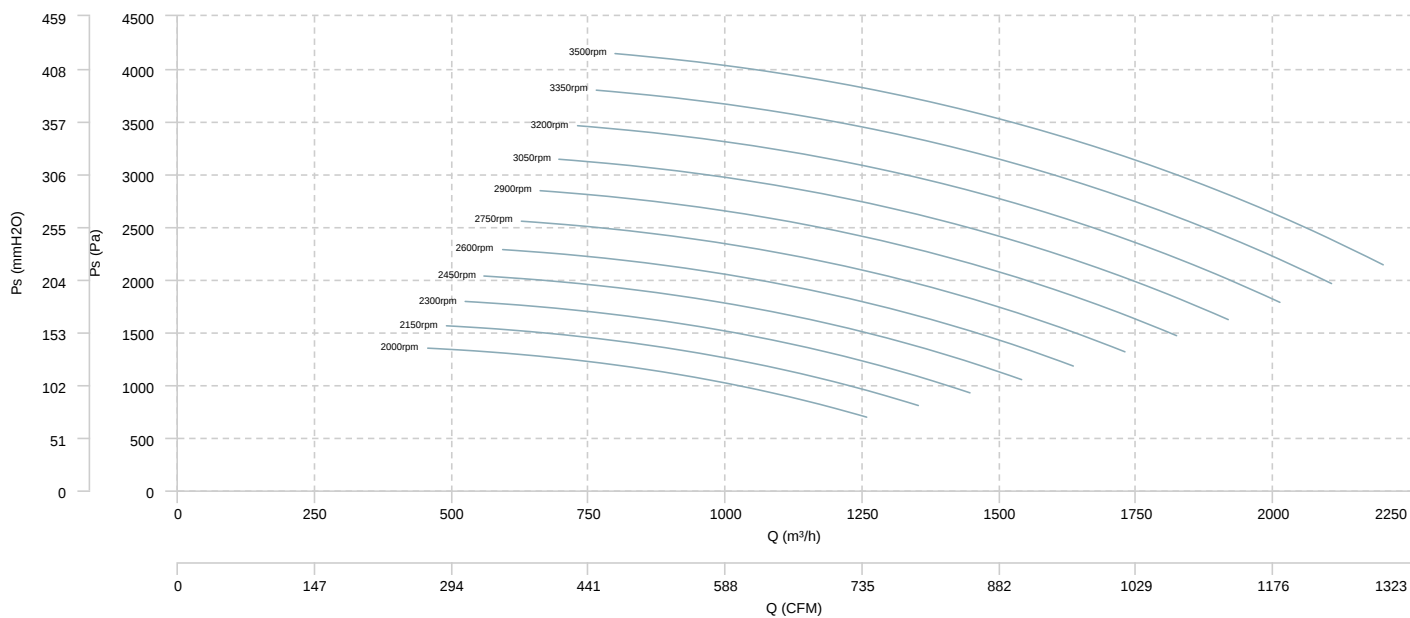


AIR FLOW - MECHANICAL POWER

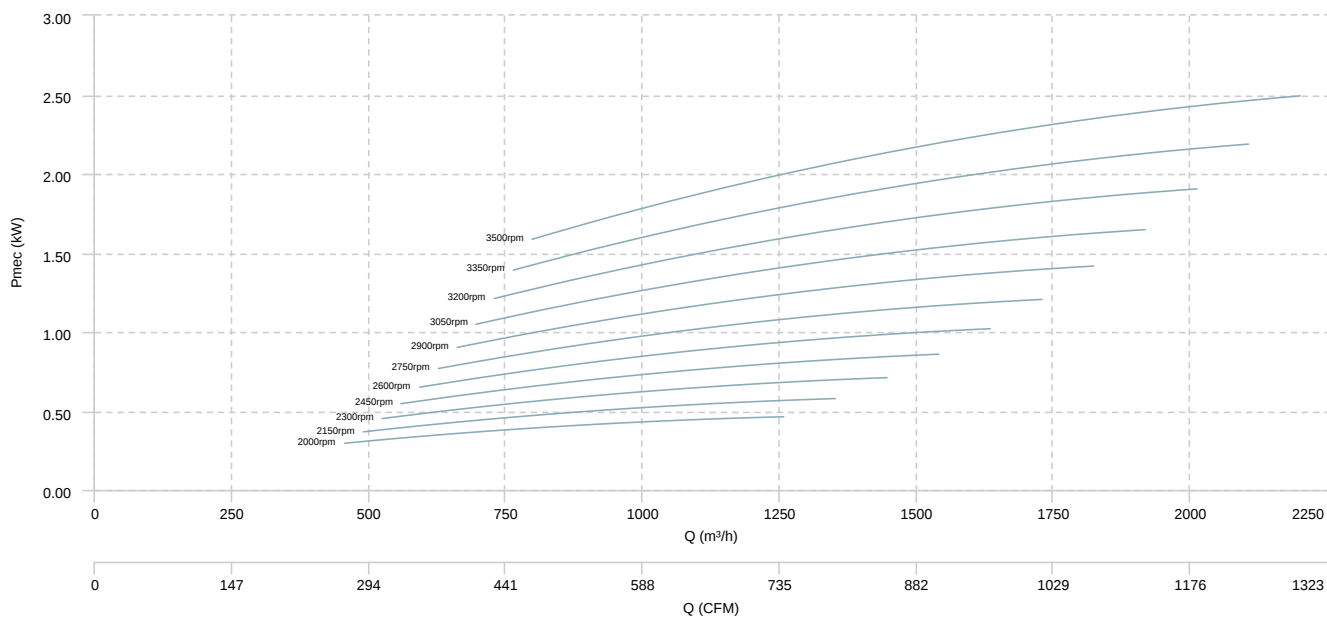


AATVM 400 ATEX

AIR FLOW - PRESSURE

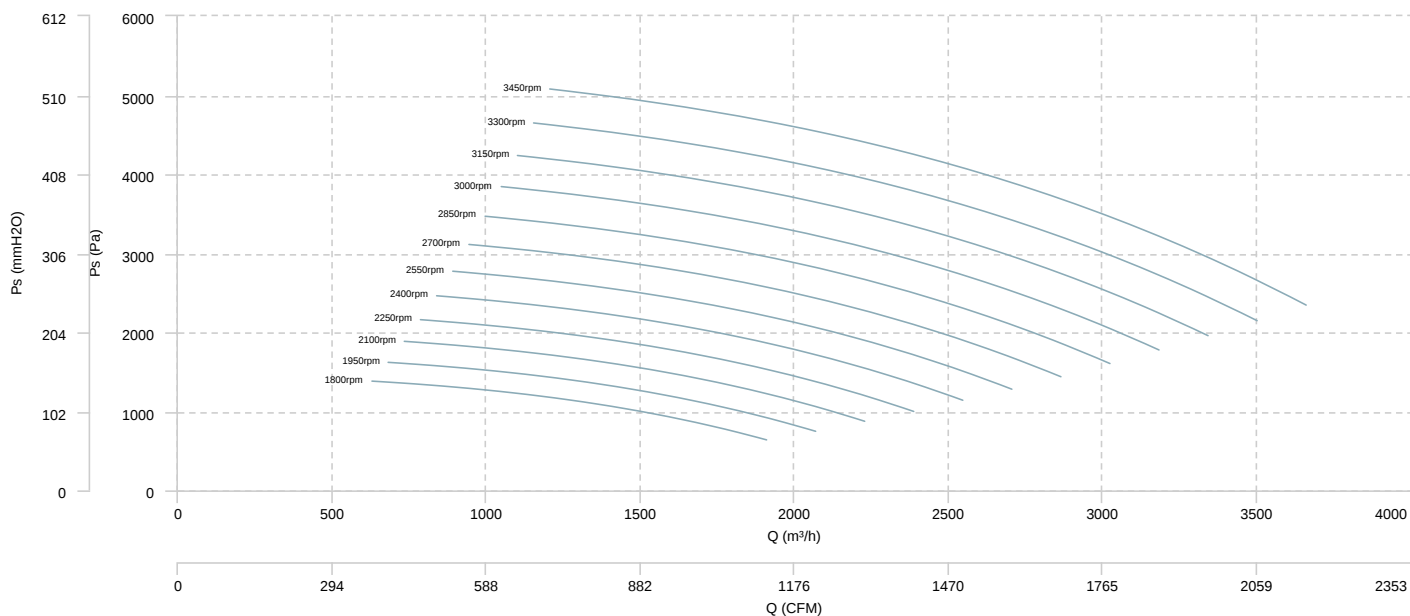


AIR FLOW - MECHANICAL POWER

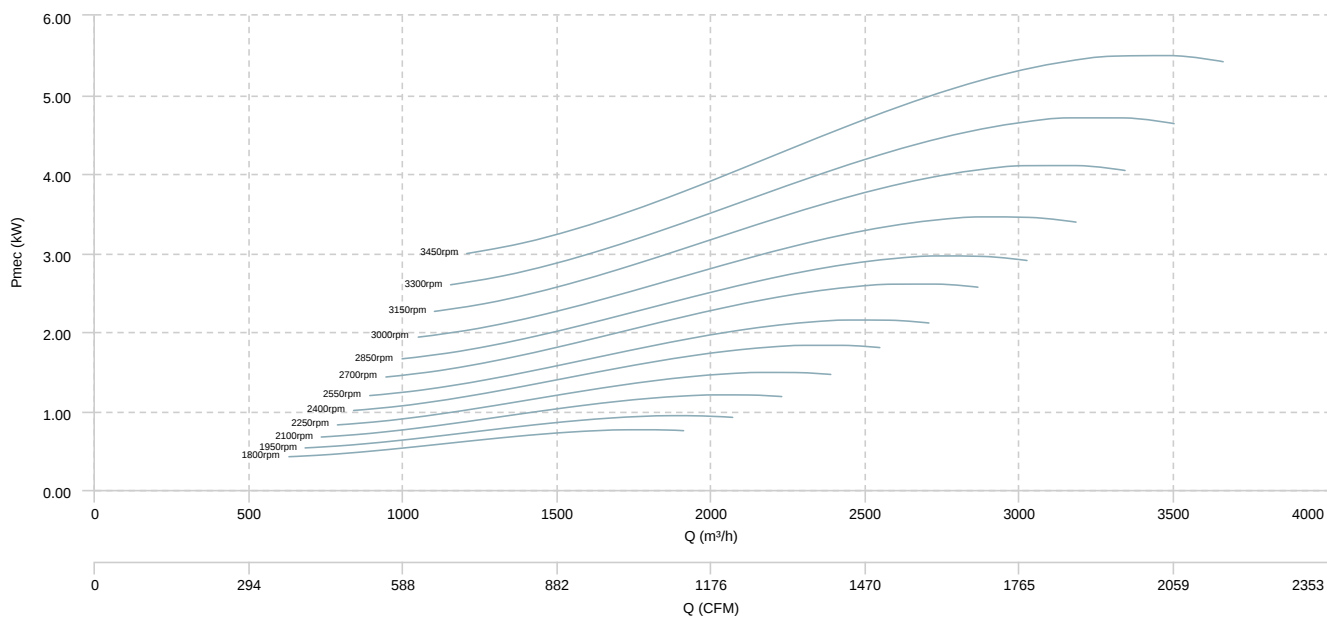


AATVM 450 ATEX

AIR FLOW - PRESSURE

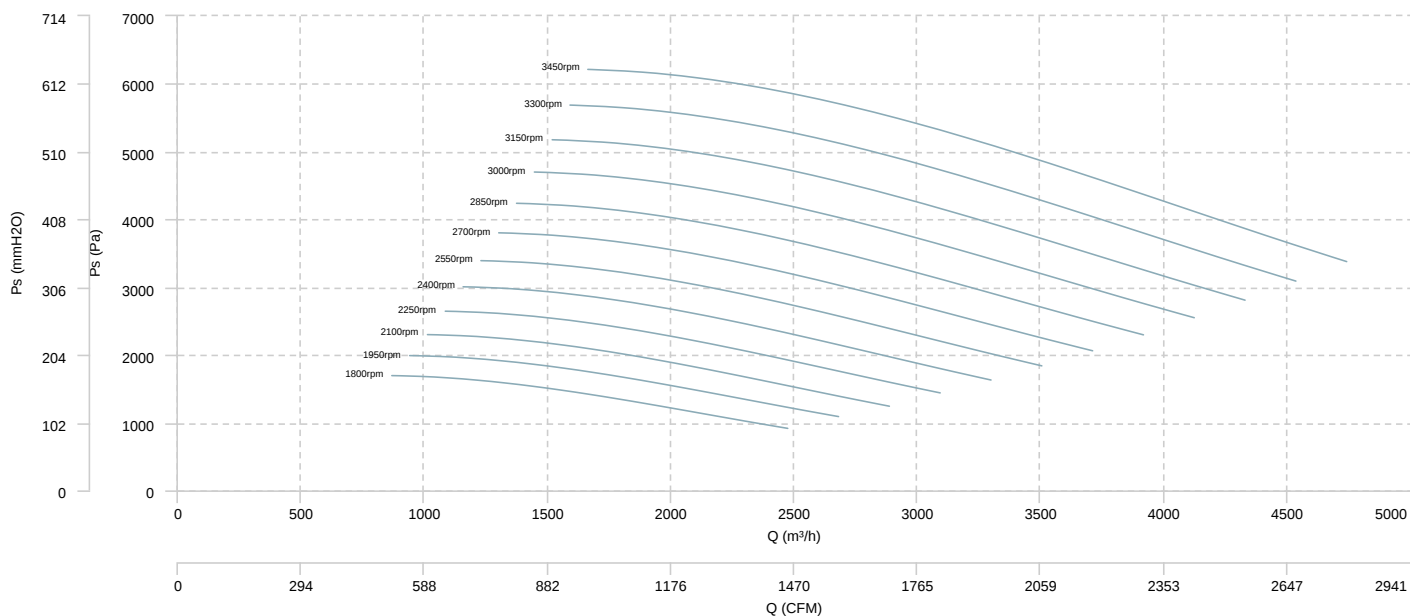


AIR FLOW - MECHANICAL POWER

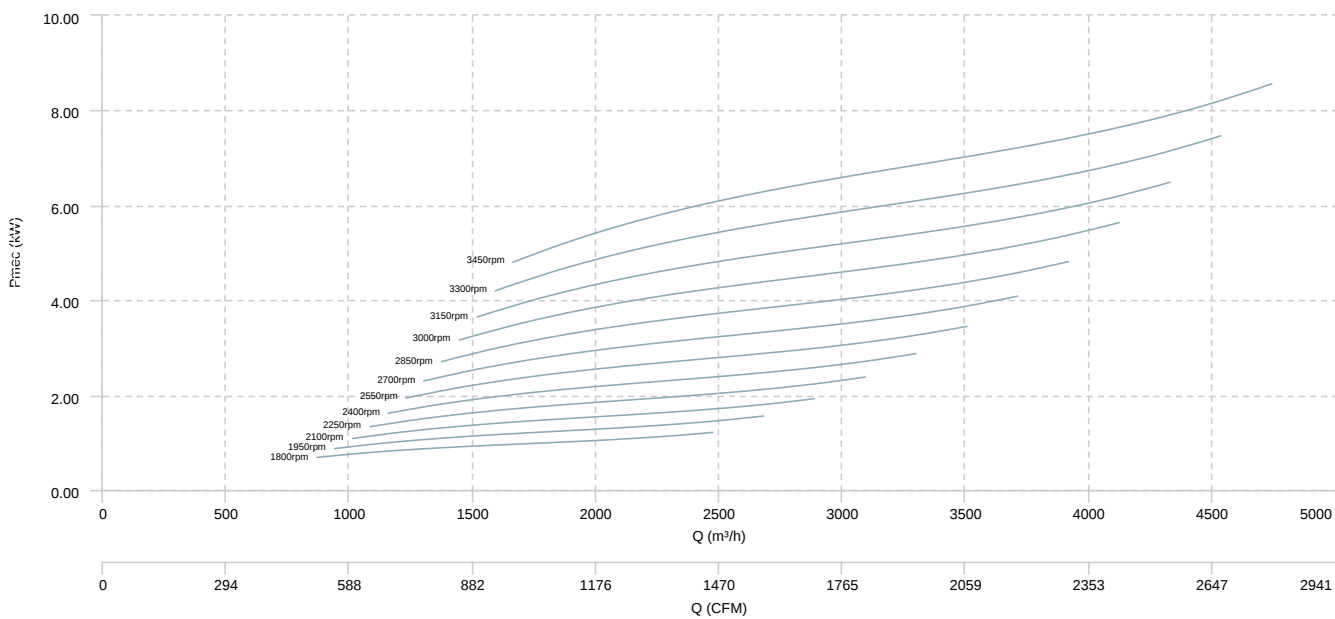


AATVM 500 ATEX

AIR FLOW - PRESSURE

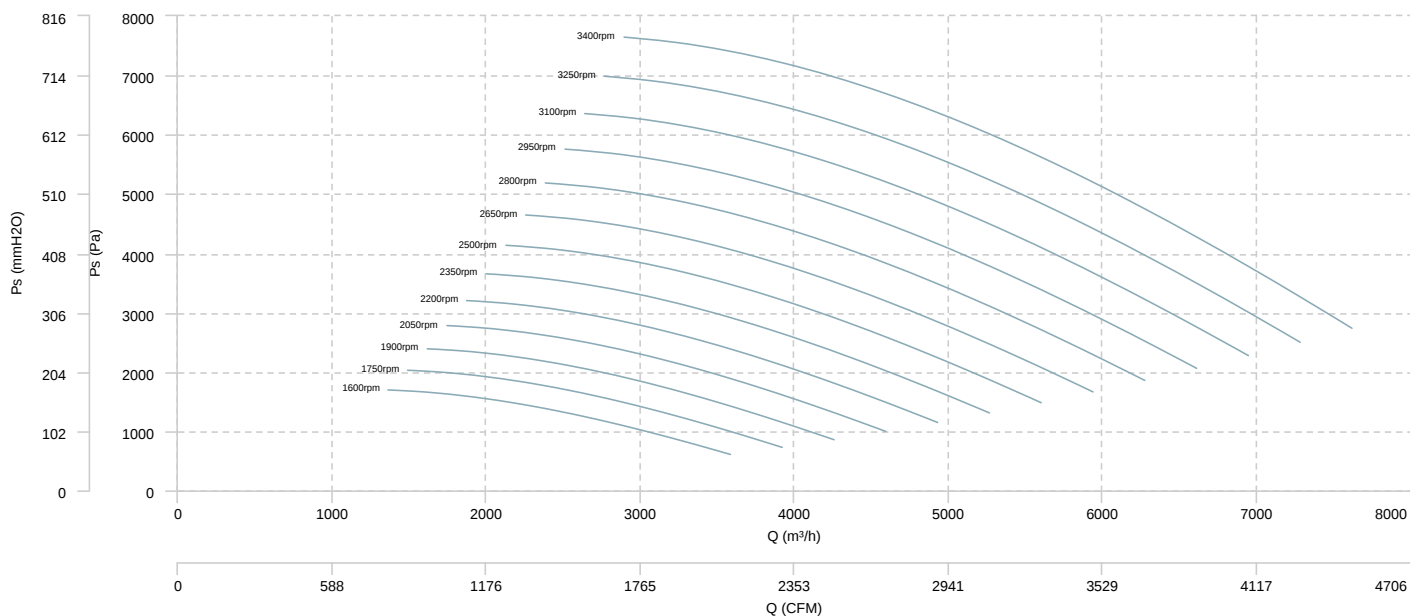


AIR FLOW - MECHANICAL POWER

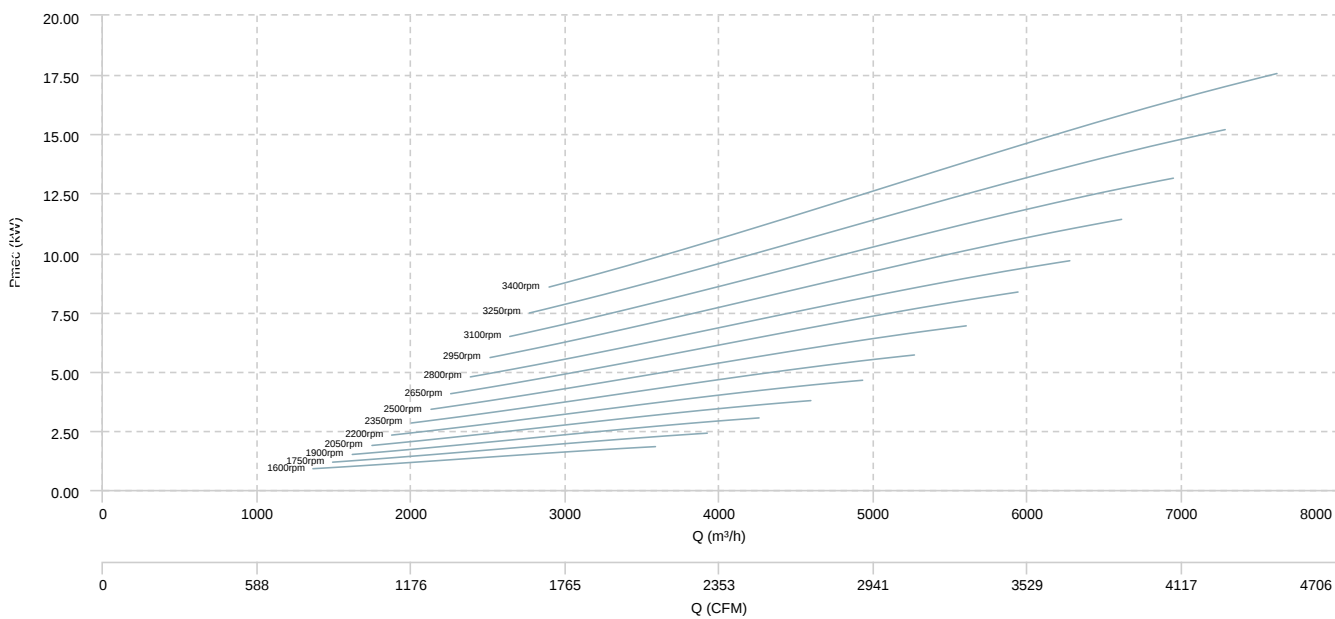


AATVM 560 ATEX

AIR FLOW - PRESSURE

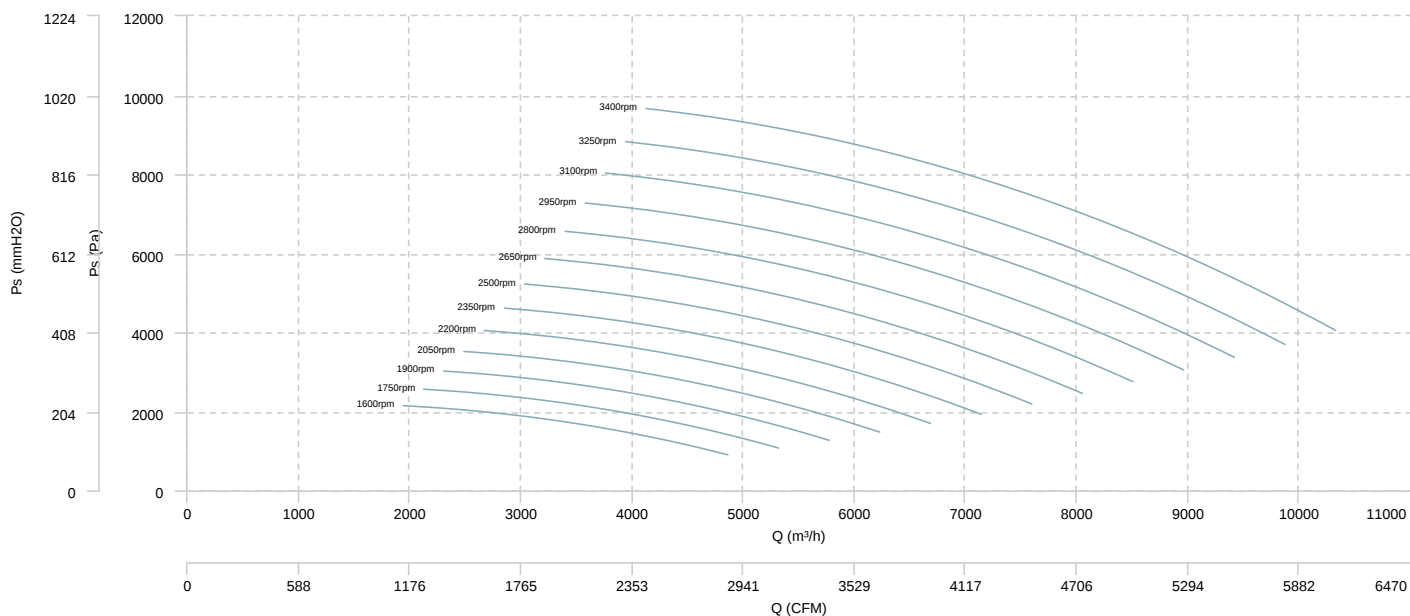


AIR FLOW - MECHANICAL POWER

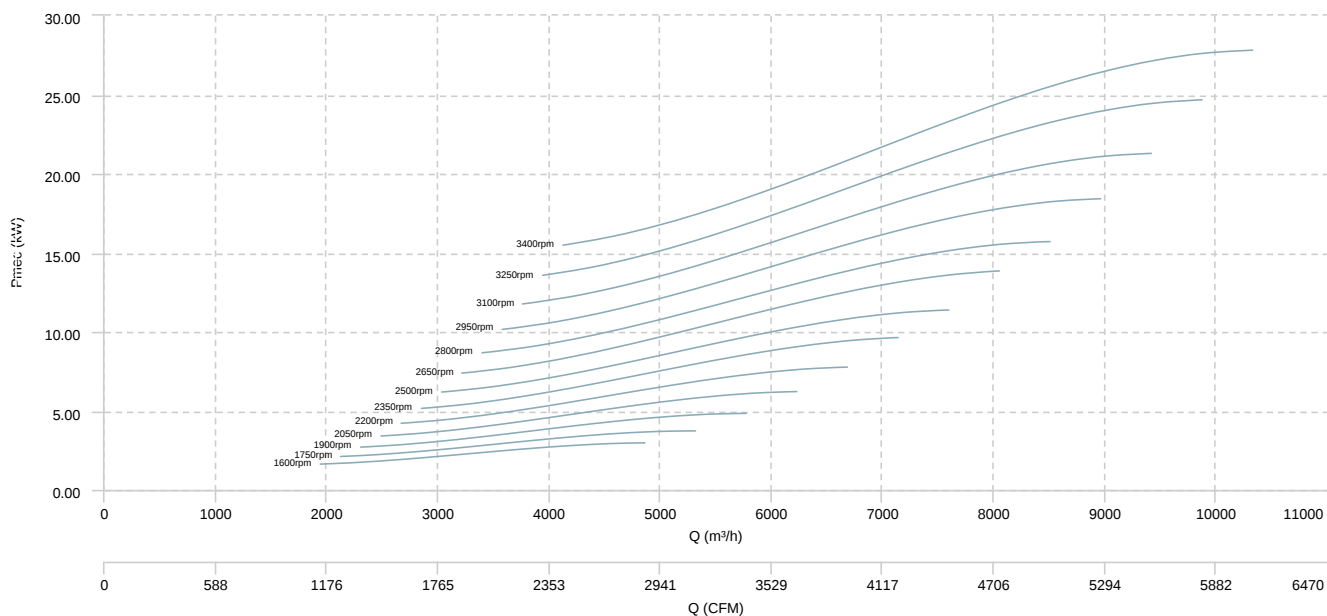


AATVM 630 ATEX

AIR FLOW - PRESSURE

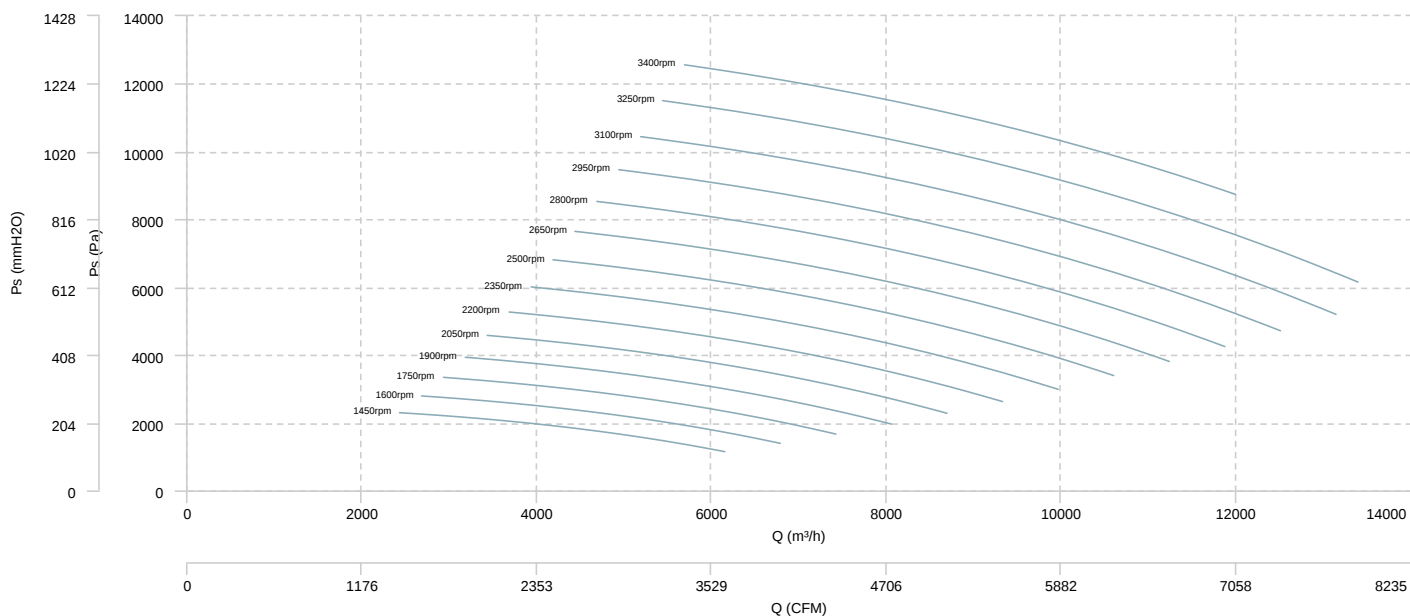


AIR FLOW - MECHANICAL POWER

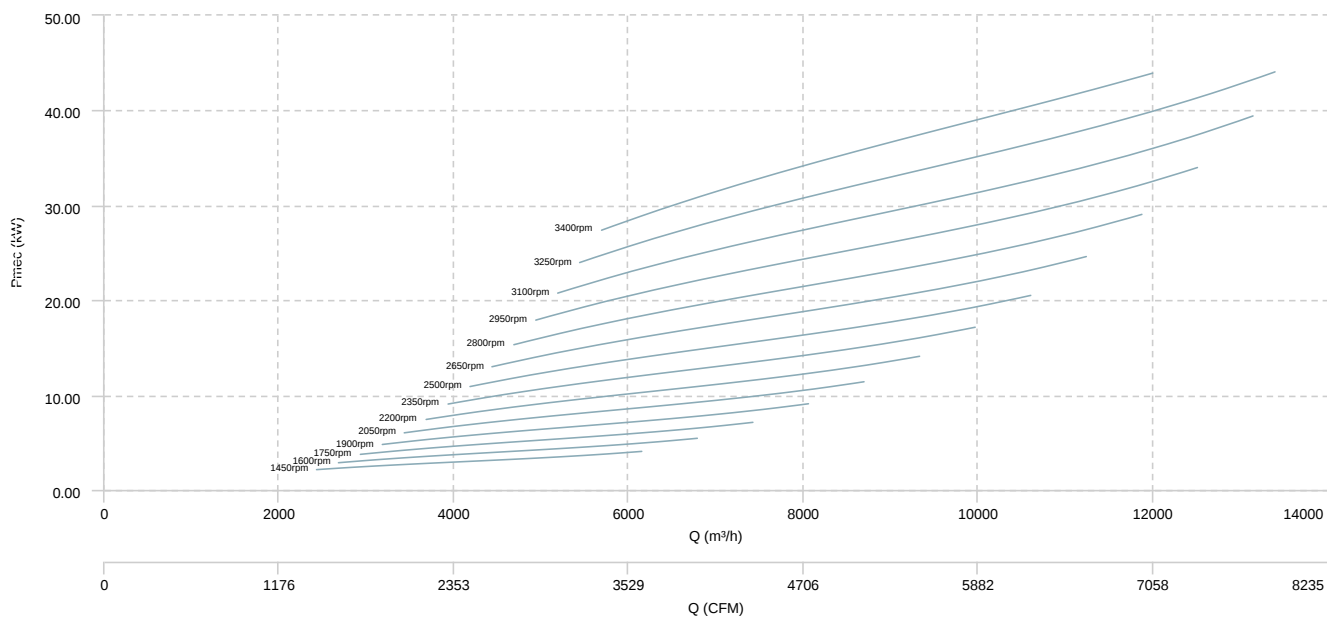


AATVM 710 ATEX

AIR FLOW - PRESSURE

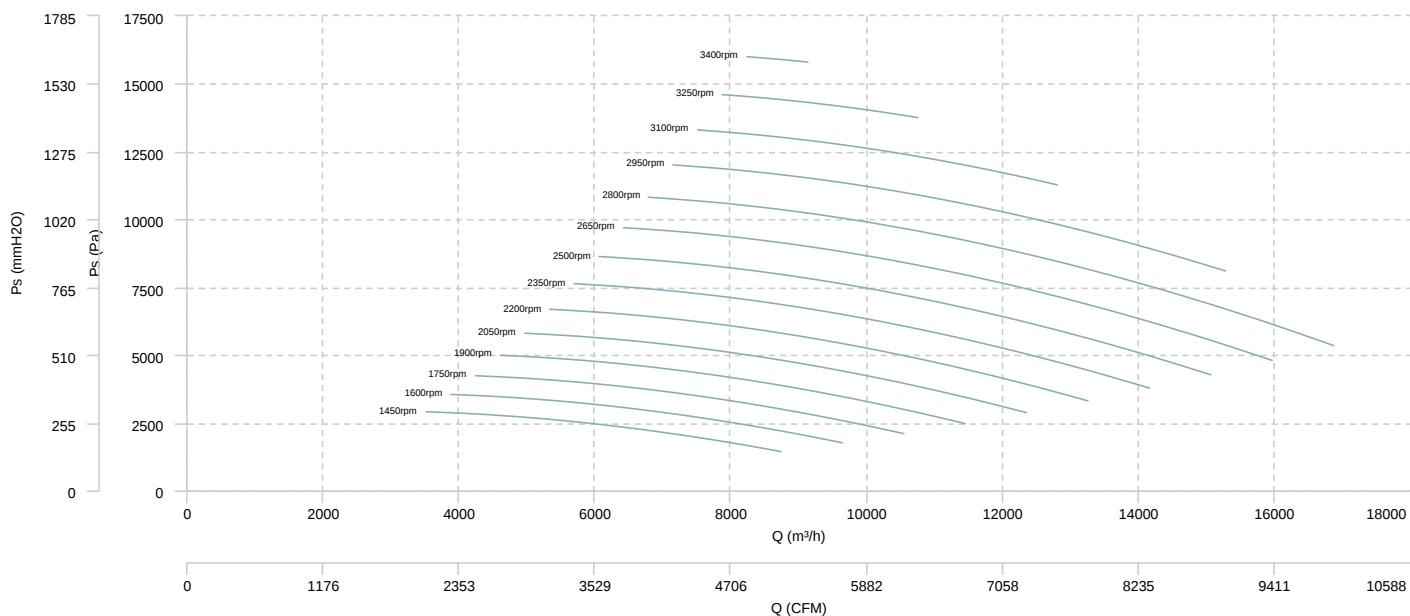


AIR FLOW - MECHANICAL POWER

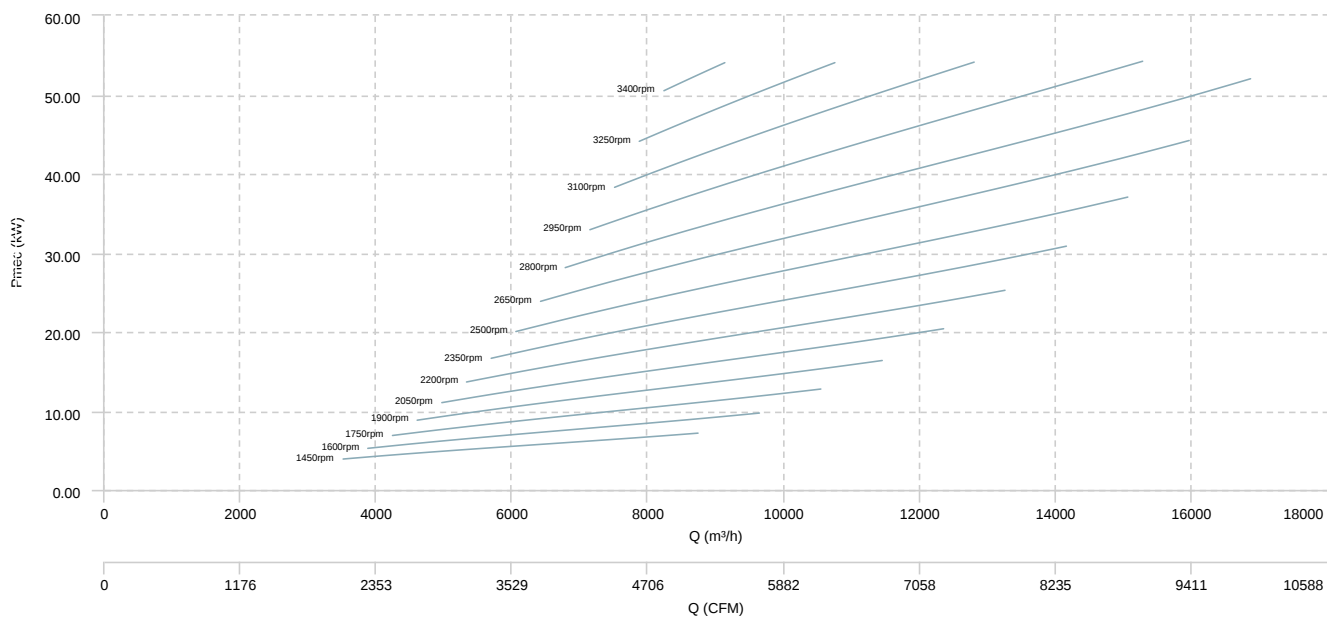


AATVM 800 ATEX

AIR FLOW - PRESSURE

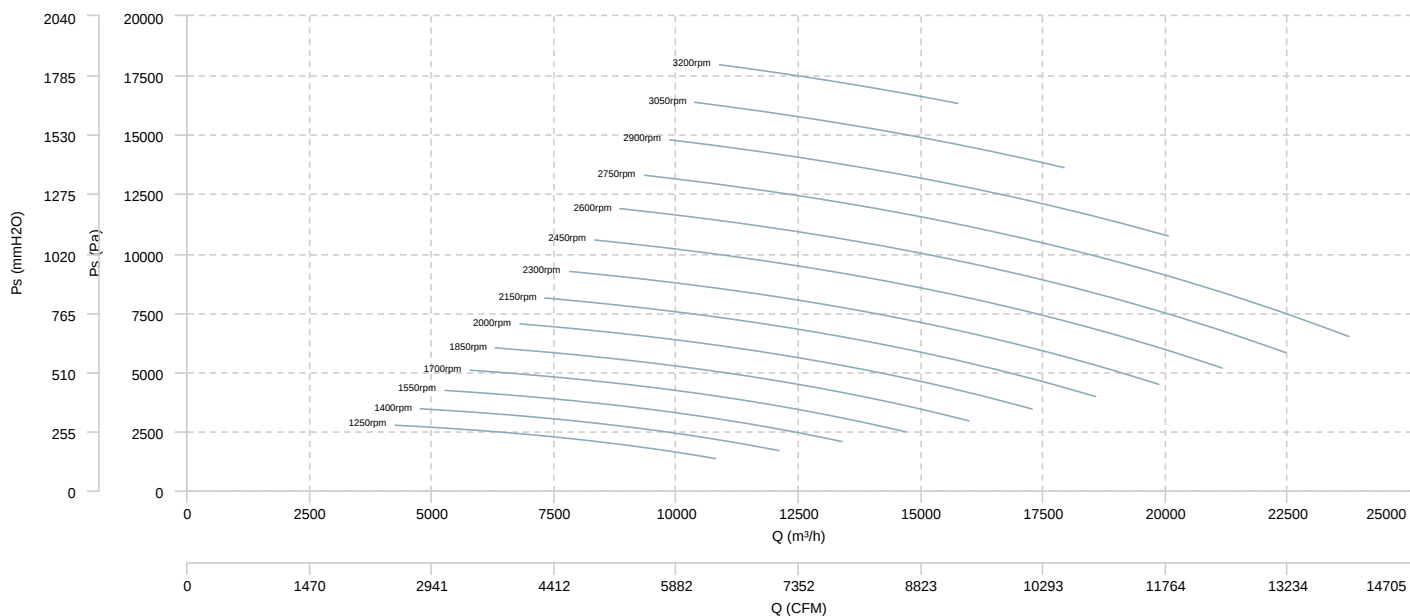


AIR FLOW - MECHANICAL POWER

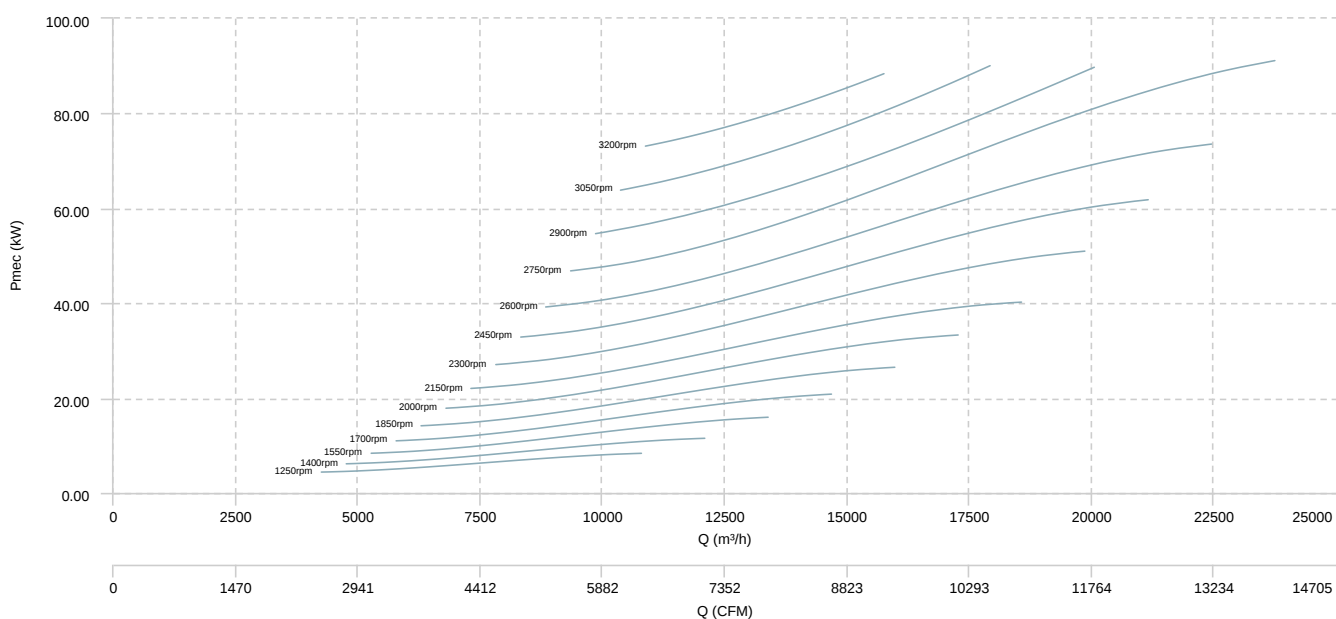


AATVM 900 ATEX

AIR FLOW - PRESSURE

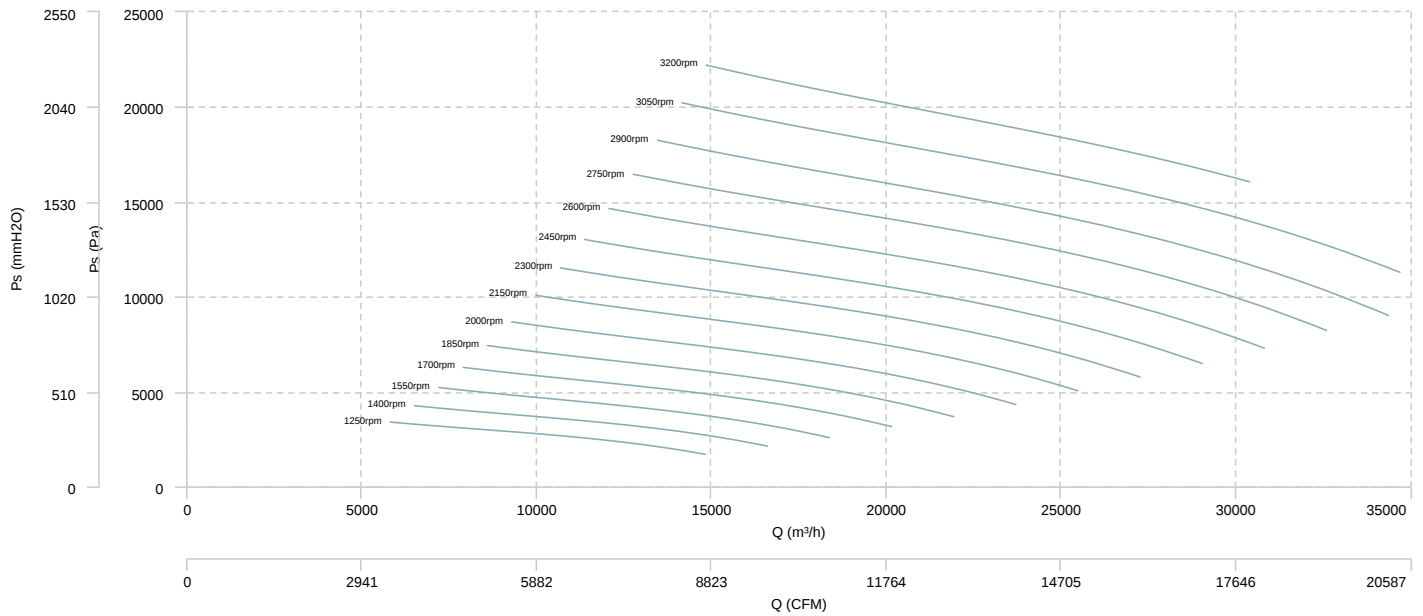


AIR FLOW - MECHANICAL POWER

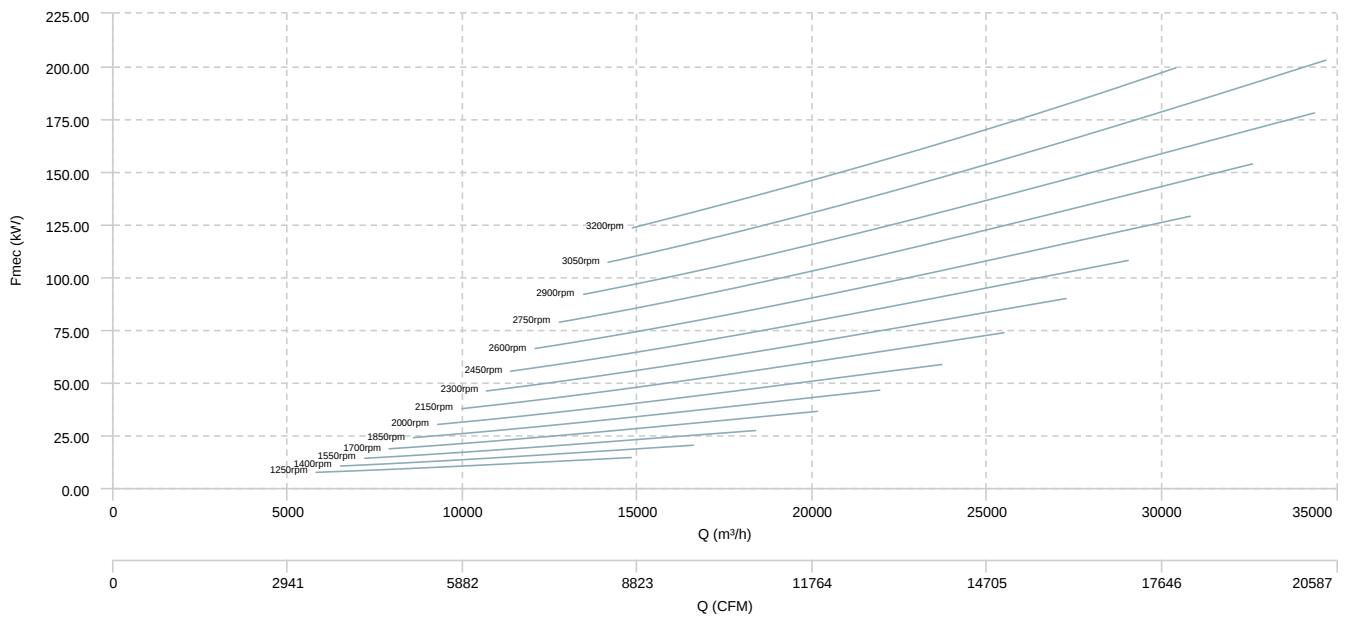


AATVM 1000 ATEX

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
AATVM 350 ATEX (2000rpm)	Inlet	46	58	64	68	69	64	58	55	73
AATVM 400 ATEX (2000rpm)	Inlet	47	59	65	70	70	66	59	56	75
AATVM 450 ATEX (1800rpm)	Inlet	49	61	68	72	73	68	62	59	77
AATVM 500 ATEX (1800rpm)	Inlet	51	63	69	73	74	69	63	60	78
AATVM 560 ATEX (1600rpm)	Inlet	53	65	72	76	77	72	66	63	81
AATVM 630 ATEX (1600rpm)	Inlet	56	68	74	78	79	74	68	65	83
AATVM 710 ATEX (1450rpm)	Inlet	56	68	74	78	79	75	68	65	84
AATVM 800 ATEX (1450rpm)	Inlet	59	71	77	81	82	78	71	68	86
AATVM 900 ATEX (1250rpm)	Inlet	57	71	77	81	82	77	71	68	86
AATVM 1000 ATEX (1250rpm)	Inlet	61	73	80	84	85	80	73	70	89

Notes:

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

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