

AATVP 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.

Accessories



AB



AC



AVR



AVS



BA-400



**BADS
ATEX**



**BIDS
ATEX**



EI



FS



**INT
ATEX**



JE 45



RI



SFC

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.
- Slightly dusty air 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

Technical data

Three-phase motor

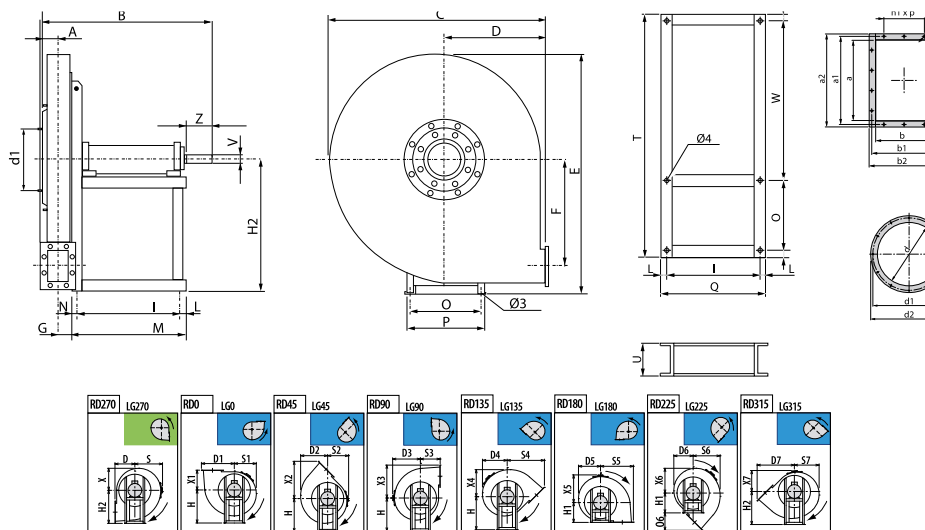
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	AATVP 400 ATEX	1800rpm - 3500rpm	0,37	1,50	690	50	40	1
	AATVP 450 ATEX	1800rpm - 3500rpm	0,55	3,00	1.000	54	65	1
	AATVP 500 ATEX	1800rpm - 3500rpm	1,10	7,50	1.370	56	80	1
	AATVP 560 ATEX	1600rpm - 3500rpm	1,10	7,50	1.860	59	100	1
	AATVP 630 ATEX	1600rpm - 3500rpm	1,50	11,00	2.740	61	133	1
	AATVP 710 ATEX	1450rpm - 3500rpm	3,00	22,00	3.920	64	183	1
	AATVP 800 ATEX	1450rpm - 3500rpm	4,00	30,00	5.390	67	218	1
	AATVP 900 ATEX	1250rpm - 3300rpm	11,00	55,00	7.610	69	320	1
	AATVP 1000 ATEX	1250rpm - 3300rpm	11,00	75,00	9.720	71	457	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
AATVP 400 ATEX	45	522	620	280	350	314	340	302	283
AATVP 450 ATEX	50	531	675	300	387	350	375	335	314
AATVP 500 ATEX	57	687	745	335	430	386	410	370	346
AATVP 560 ATEX	65	703	835	375	487	438	460	418	390
AATVP 630 ATEX	73	735	940	425	545	493	515	472	440

Model	D6	D7	E	F	G	H	H1	H2	I
AATVP 400 ATEX	293	445	658	267	42	375	375	375	284
AATVP 450 ATEX	319	486	714	298	47	400	400	400	284
AATVP 500 ATEX	350	541	796	334	52	450	450	450	407
AATVP 560 ATEX	392	610	890	379	58	500	500	500	407
AATVP 630 ATEX	438	688	1000	427	64	560	560	560	407

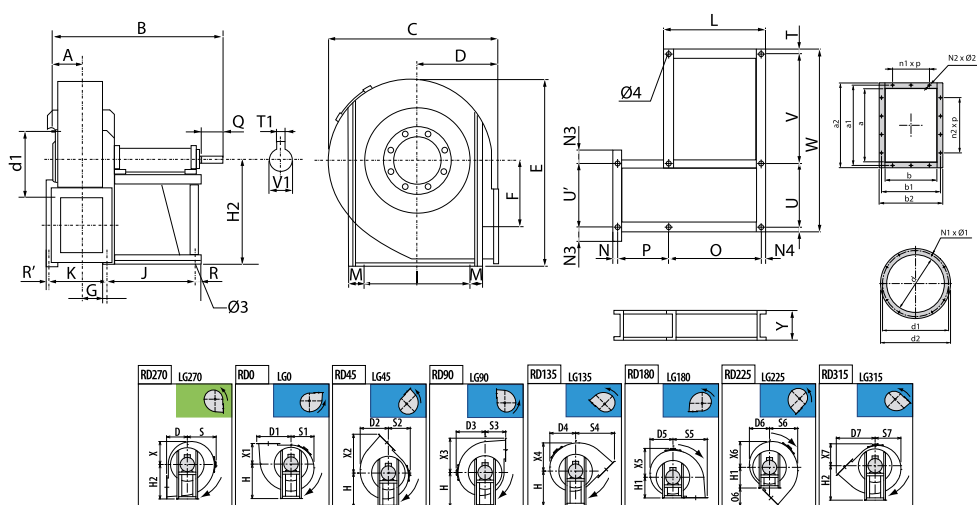
Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	Q
AATVP 400 ATEX	23	347	40	Nº8 M6x20	4x10	288	165	324	330
AATVP 450 ATEX	23	347	40	Nº8 M6x20	4x10	288	186	324	330
AATVP 500 ATEX	28	485	50	Nº8 M6x20	6x10	355	206	400	463
AATVP 560 ATEX	28	485	50	Nº8 M6x20	6x12	355	235	400	463
AATVP 630 ATEX	28	485	50	Nº8 M6x20	6x12	355	263	400	463

Model	R	S	S1	S2	S3	S4	S5	S6	S7
AATVP 400 ATEX	18	340	283	293	280	445	350	314	302
AATVP 450 ATEX	18	375	314	319	300	486	387	350	335
AATVP 500 ATEX	23	410	346	350	335	541	430	386	370
AATVP 560 ATEX	23	460	390	392	375	610	487	438	418
AATVP 630 ATEX	23	515	440	438	425	688	545	493	472

Model	T	U	V	W	X	X1	X2	X3	X4
AATVP 400 ATEX	900	100	24	576	283	280	445	350	314
AATVP 450 ATEX	900	100	24	576	314	300	486	387	350
AATVP 500 ATEX	1060	120	28	660	346	335	541	430	386
AATVP 560 ATEX	1180	120	28	780	390	375	610	487	438
AATVP 630 ATEX	1180	120	38	780	440	425	688	545	493

Model	X5	X6	X7	Z	a	a1	a2	b	b1
AATVP 400 ATEX	340	302	293	50	105	139	165	76	110
AATVP 450 ATEX	375	335	319	50	117	151	177	85	119
AATVP 500 ATEX	410	370	350	60	131	165	191	95	129
AATVP 560 ATEX	460	418	392	60	146	182	216	105	139
AATVP 630 ATEX	515	472	438	80	166	200	236	117	151

Model	b2	d	d1	d2	n2xp	Ø3	Ø4
AATVP 400 ATEX	136	145	182	215	-	12	14
AATVP 450 ATEX	145	165	200	235	-	12	14
AATVP 500 ATEX	155	185	219	250	1x100	14	14
AATVP 560 ATEX	175	205	241	275	1x112	14	14
AATVP 630 ATEX	187	228	265	298	1x112	14	14



Model	A	B	C	D	D1	D2	D3	D4	D5
AATVP 710 ATEX	83	855	1045	475	606	547	570	522	493
AATVP 800 ATEX	90	870	1170	530	678	622	640	592	555
AATVP 900 ATEX	103	885	1315	600	759	696	715	668	628
AATVP 1000 ATEX	110	1043	1460	670	845	775	790	735	690

Model	D6	D7	E	F	G	H	H1	H2	I
AATVP 710 ATEX	489	764	1123	478	128	630	630	550	485
AATVP 800 ATEX	545	854	1265	539	147	710	710	620	485
AATVP 900 ATEX	617	961	1428	608	158	800	800	695	485
AATVP 1000 ATEX	670	1074	1590	681	188,5	900	900	770	762

Model	J	K	L	M	N	N1xØ1	N2xØ2	N3	N4
AATVP 710 ATEX	477	216	543	23	20	Nº8 M8x25	6x12	75	33
AATVP 800 ATEX	477	234	543	23	30	Nº8 M8x25	8x12	65	33
AATVP 900 ATEX	477	256	543	23	30	Nº8 M8x25	8x12	78	33
AATVP 1000 ATEX	551	305	629	32	36	Nº8 M8x25	10x12	150	39

Model	O	O6	P	Q	R	R'	S	S1	S2
AATVP 710 ATEX	477	289	216	110	33	20	570	493	489
AATVP 800 ATEX	477	324	234	110	33	30	640	555	545
AATVP 900 ATEX	477	361	256	110	33	30	715	628	617
AATVP 1000 ATEX	551	174	305	110	39	36	790	690	670

Model	S3	S4	S5	S6	S7	T	T1	U	U'
AATVP 710 ATEX	475	764	606	547	522	23	12	485	400
AATVP 800 ATEX	530	854	678	622	592	23	12	485	485
AATVP 900 ATEX	600	961	759	696	668	23	14	485	500
AATVP 1000 ATEX	670	1074	845	775	735	32	14	762	526

Model	V	V1	X	X1	X2	X3	X4	X5	X6
AATVP 710 ATEX	720	42	493	475	764	606	547	570	522
AATVP 800 ATEX	970	42	555	530	854	678	622	640	592
AATVP 900 ATEX	970	48	628	600	961	759	696	715	668
AATVP 1000 ATEX	974	48	690	670	1074	845	775	790	735

Model	X7	Y	a	a1	a2	b	b1	b2	d
AATVP 710 ATEX	489	160	185	219	255	131	165	201	255
AATVP 800 ATEX	545	160	207	241	277	148	182	218	285

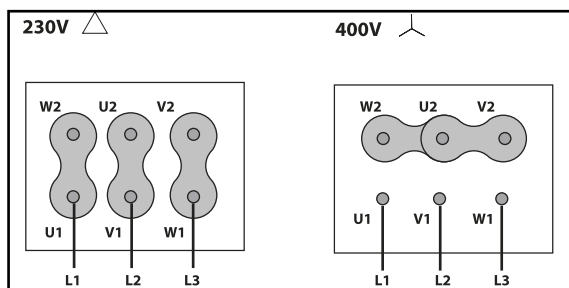
Model	X7	Y	a	a1	a2	b	b1	b2	d
AATVP 900 ATEX	617	160	231	265	301	166	200	236	320
AATVP 1000 ATEX	670	180	258	292	328	185	219	255	360

Model	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVP 710 ATEX	292	325	-	1x112	19	19
AATVP 800 ATEX	332	365	1x112	1x112	19	19
AATVP 900 ATEX	366	400	1x112	1x112	19	19
AATVP 1000 ATEX	405	440	1x112	2x112	24	20

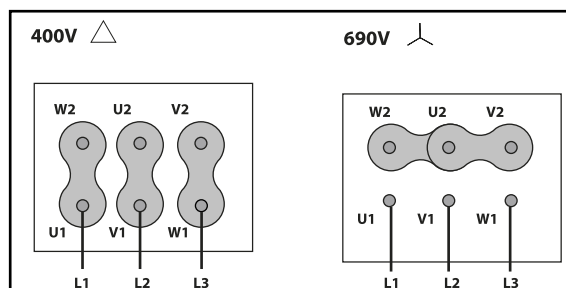
Wiring diagram

Wiring diagram N° 1

230/400V



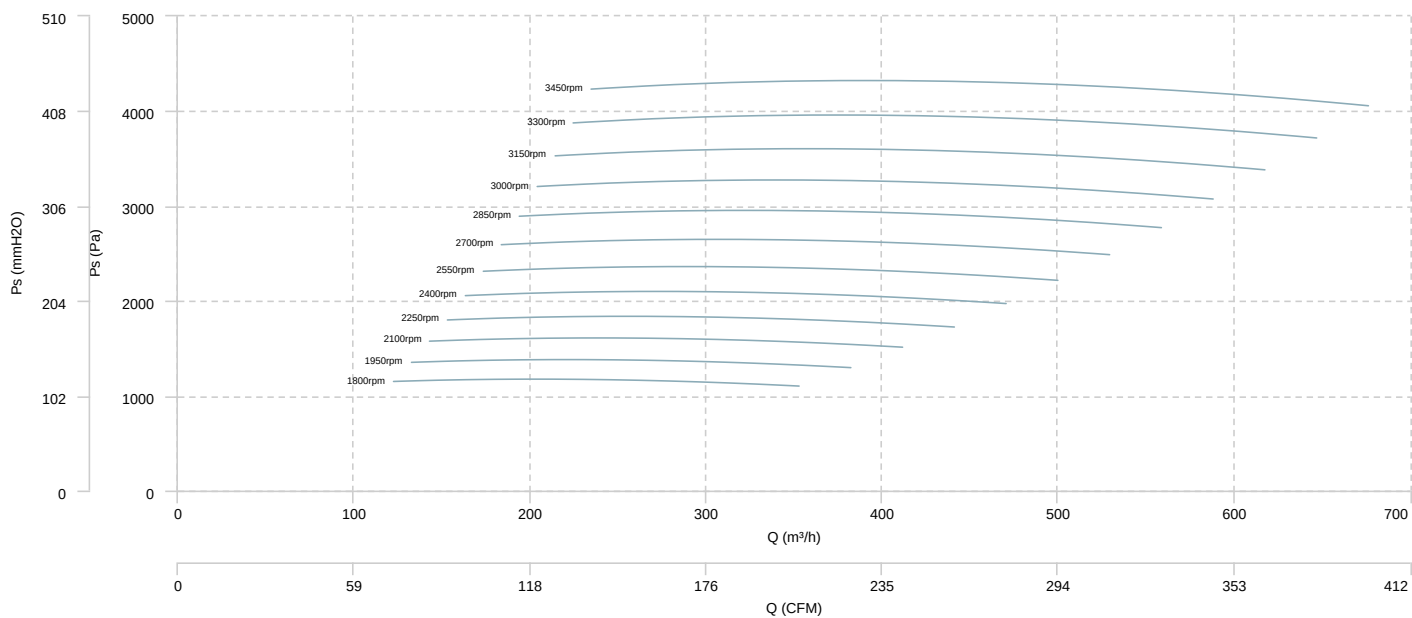
400/690V



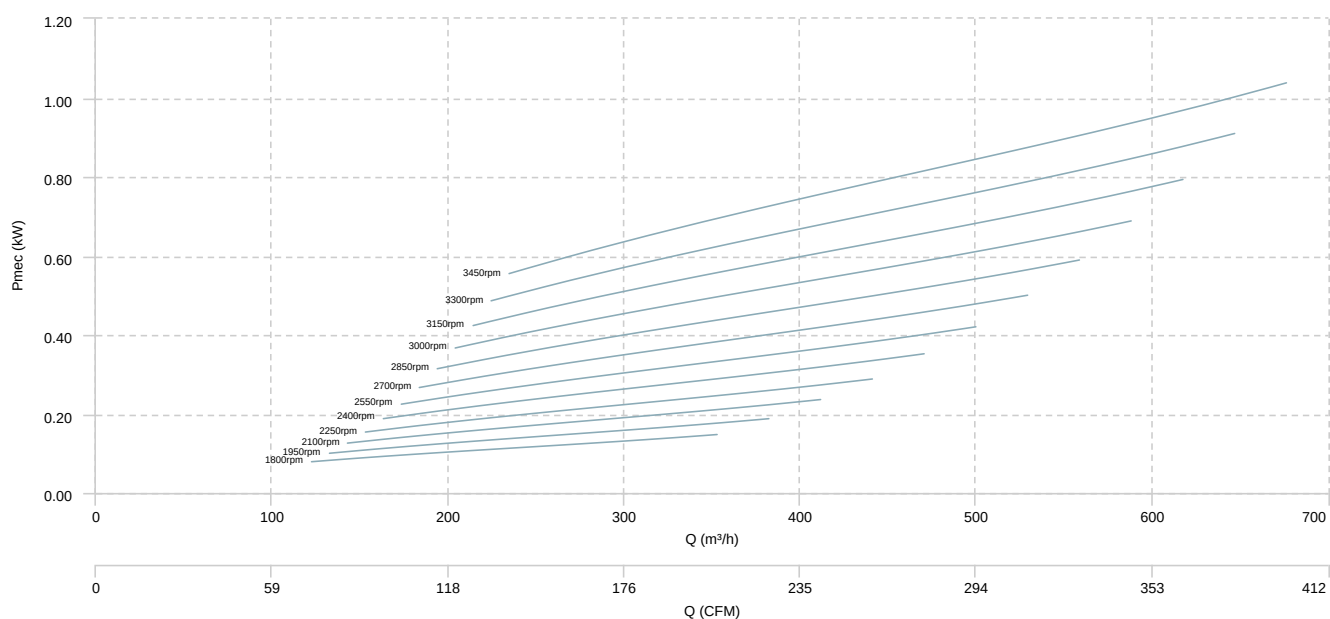
CHARACTERISTIC CURVE

AATVP 400 ATEX

AIR FLOW - PRESSURE

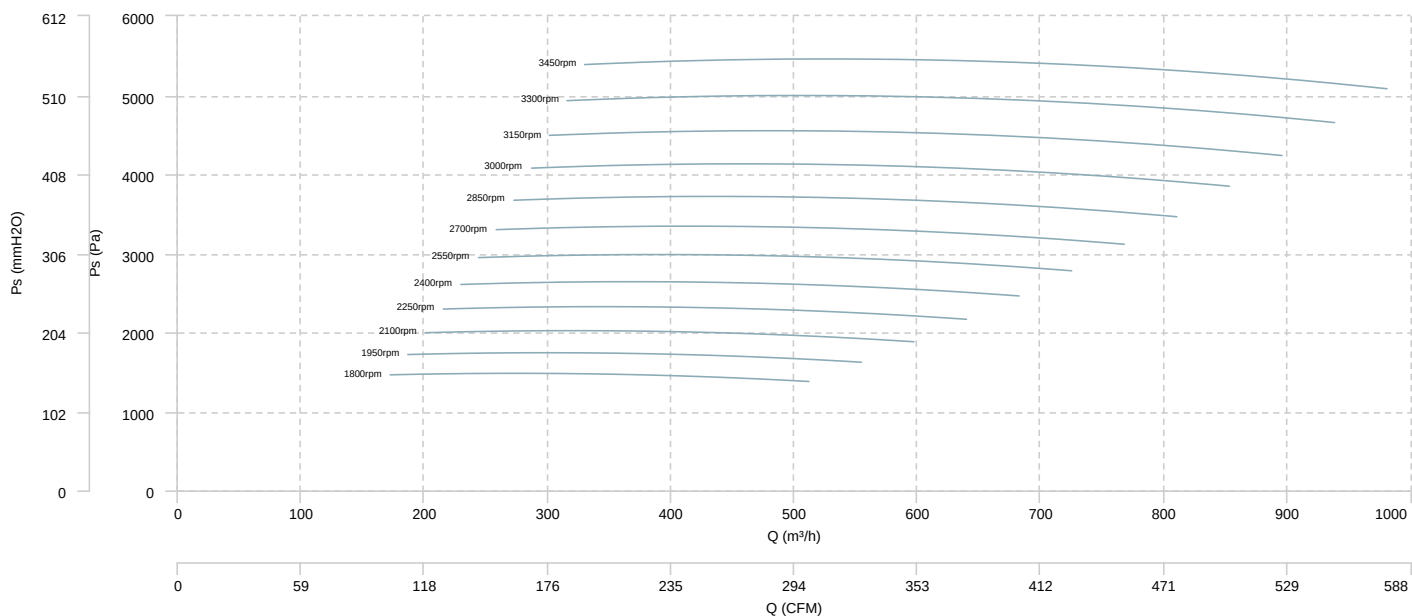


AIR FLOW - MECHANICAL POWER

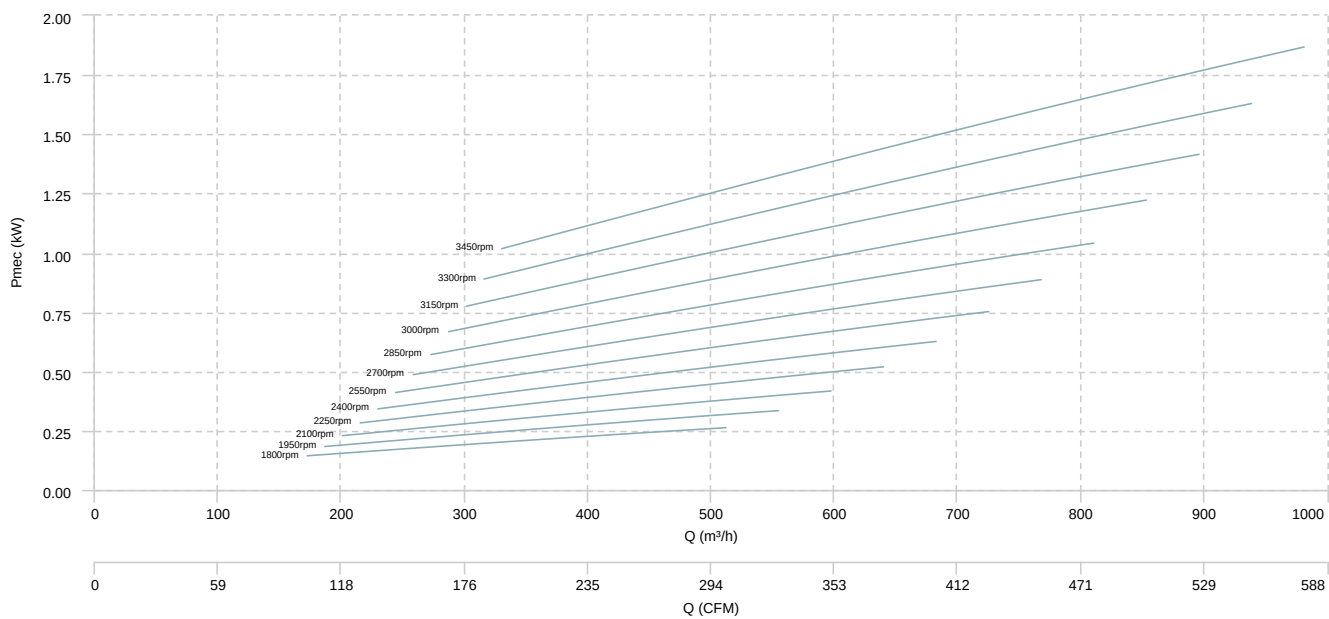


AATVP 450 ATEX

AIR FLOW - PRESSURE

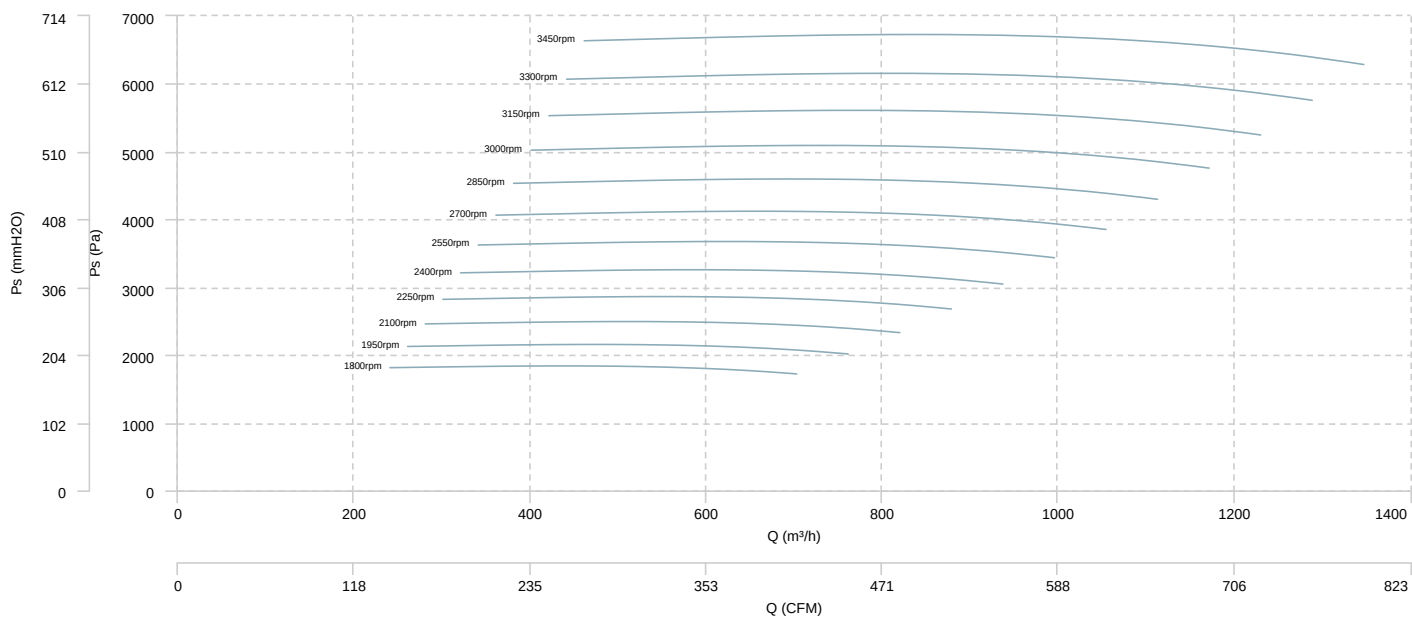


AIR FLOW - MECHANICAL POWER

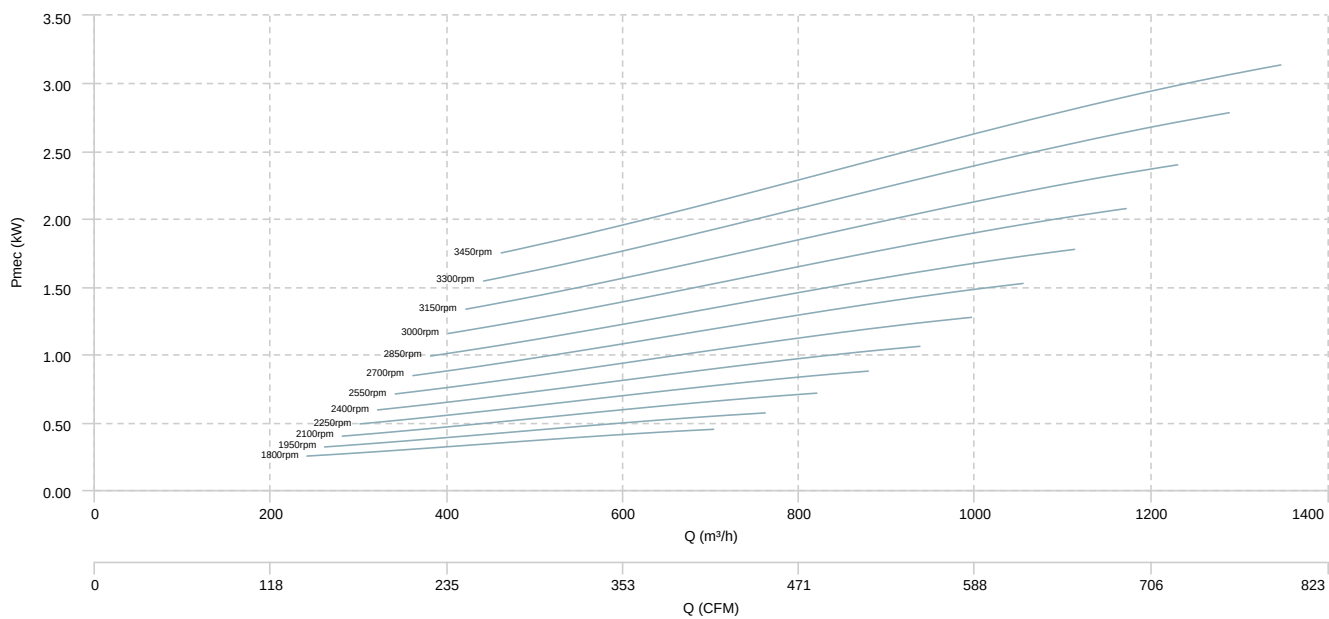


AATVP 500 ATEX

AIR FLOW - PRESSURE

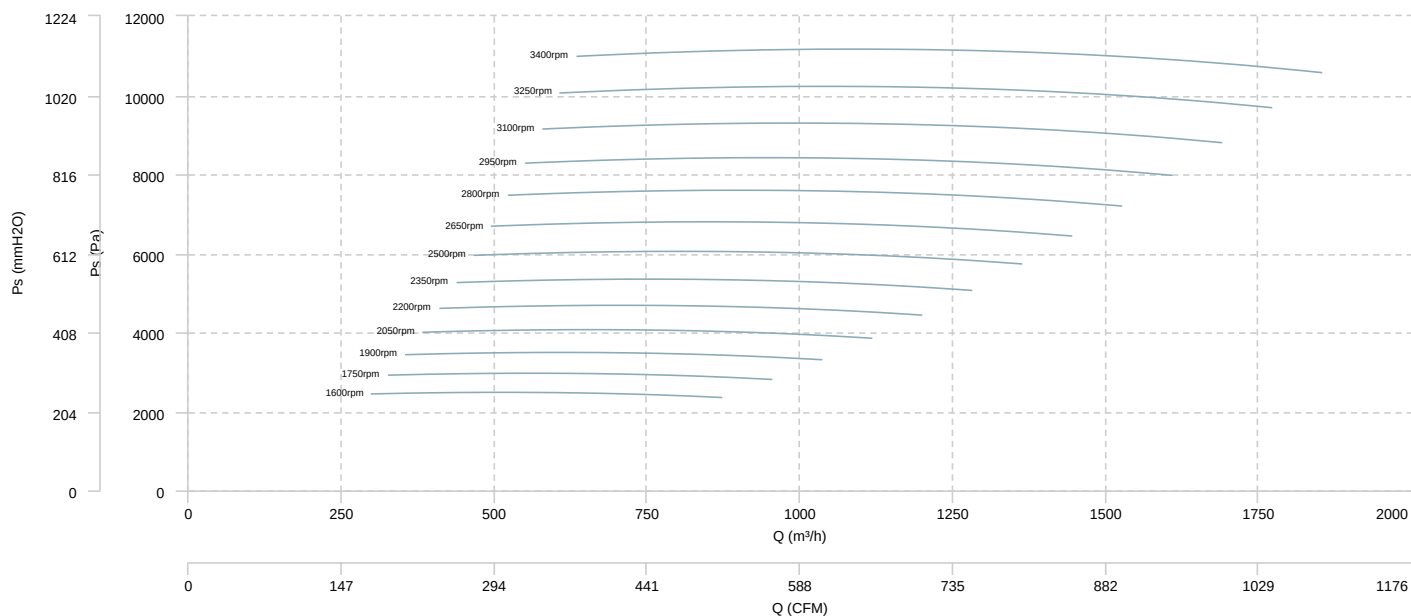


AIR FLOW - MECHANICAL POWER

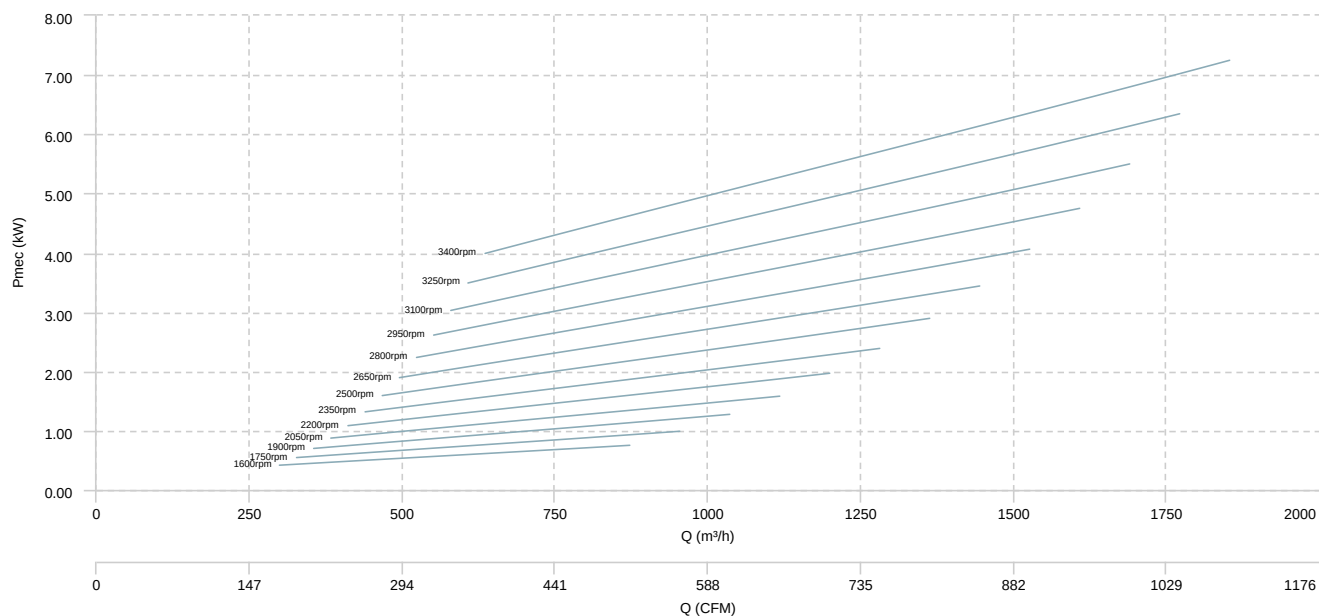


AATVP 560 ATEX

AIR FLOW - PRESSURE

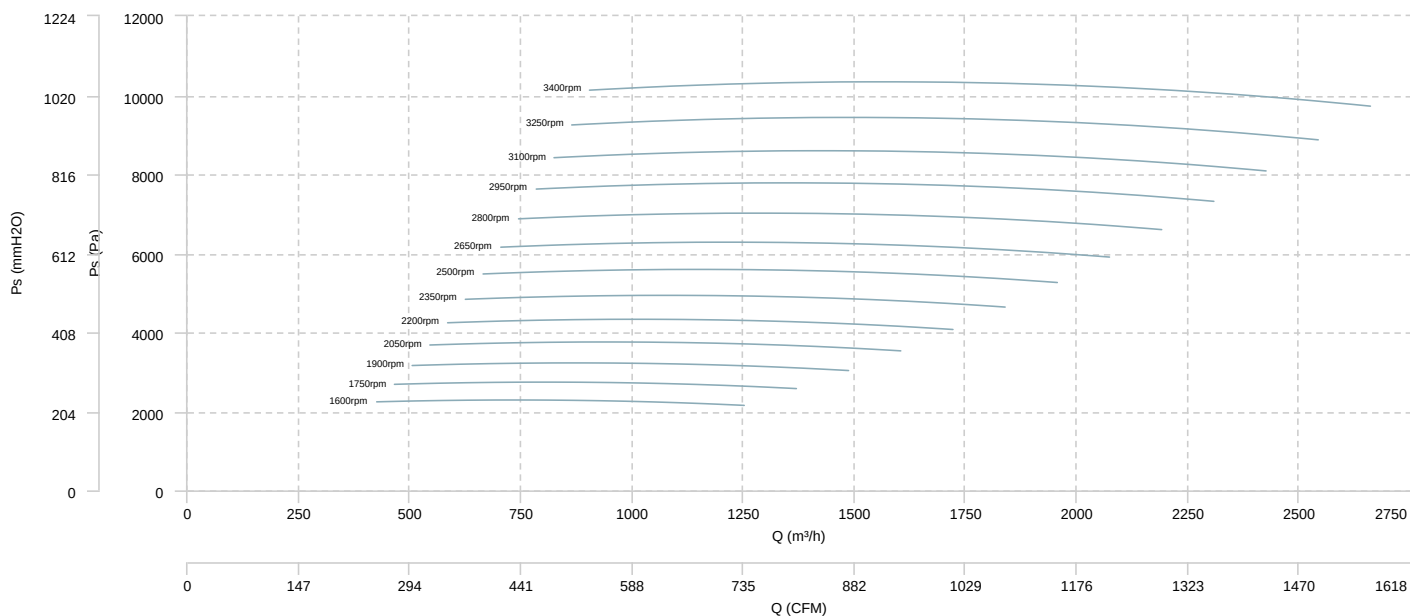


AIR FLOW - MECHANICAL POWER

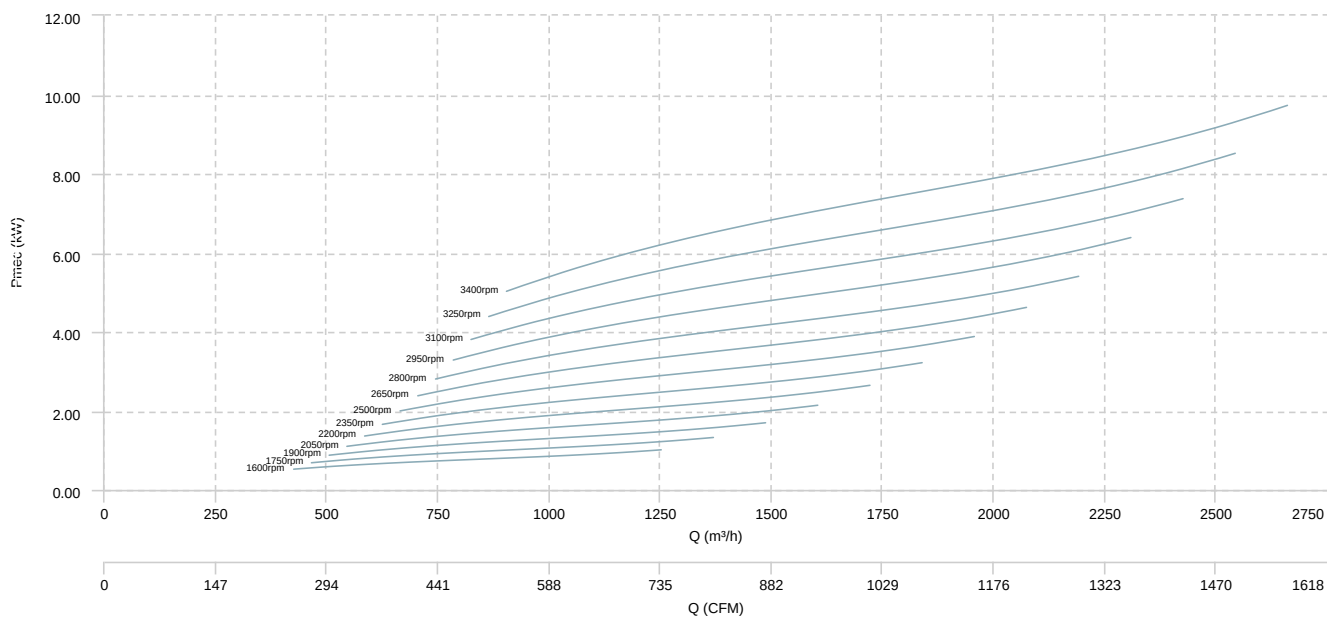


AATVP 630 ATEX

AIR FLOW - PRESSURE

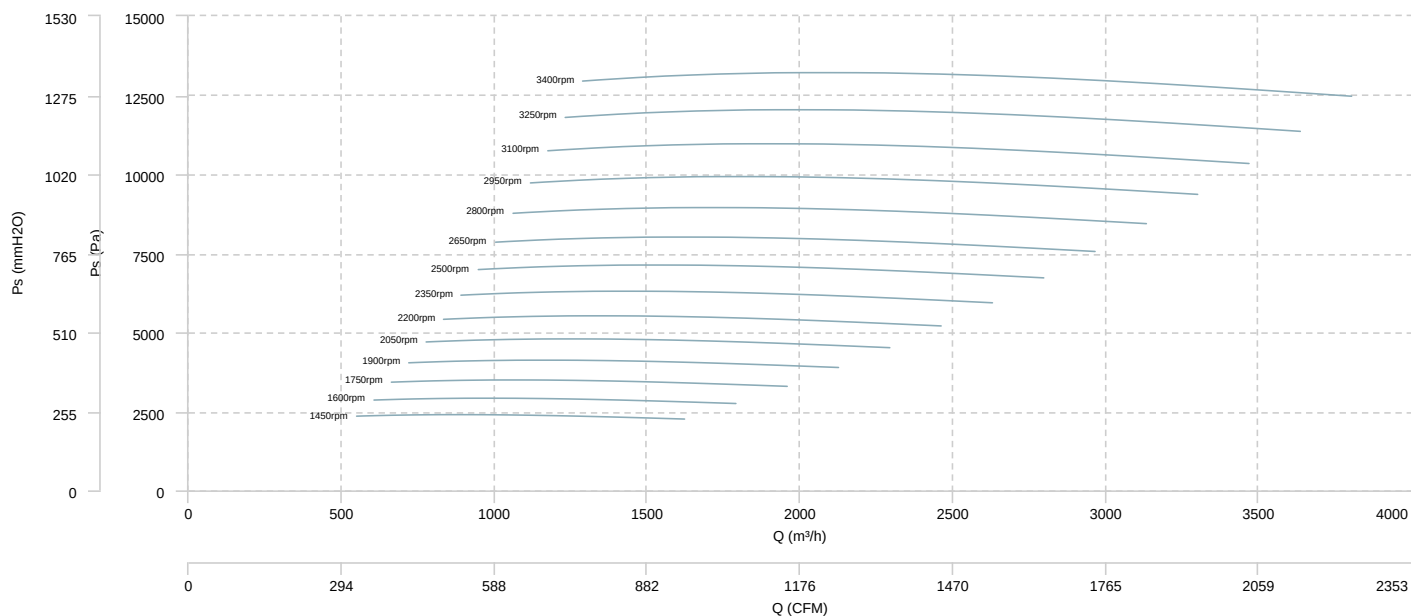


AIR FLOW - MECHANICAL POWER

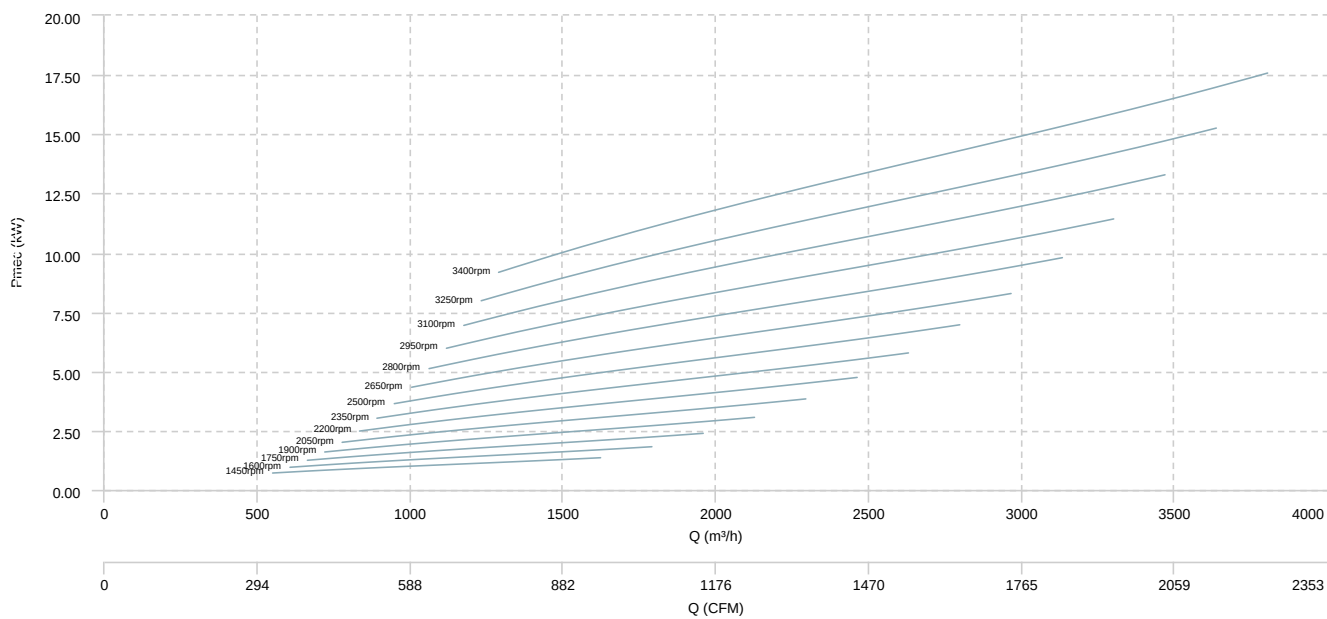


AATVP 710 ATEX

AIR FLOW - PRESSURE

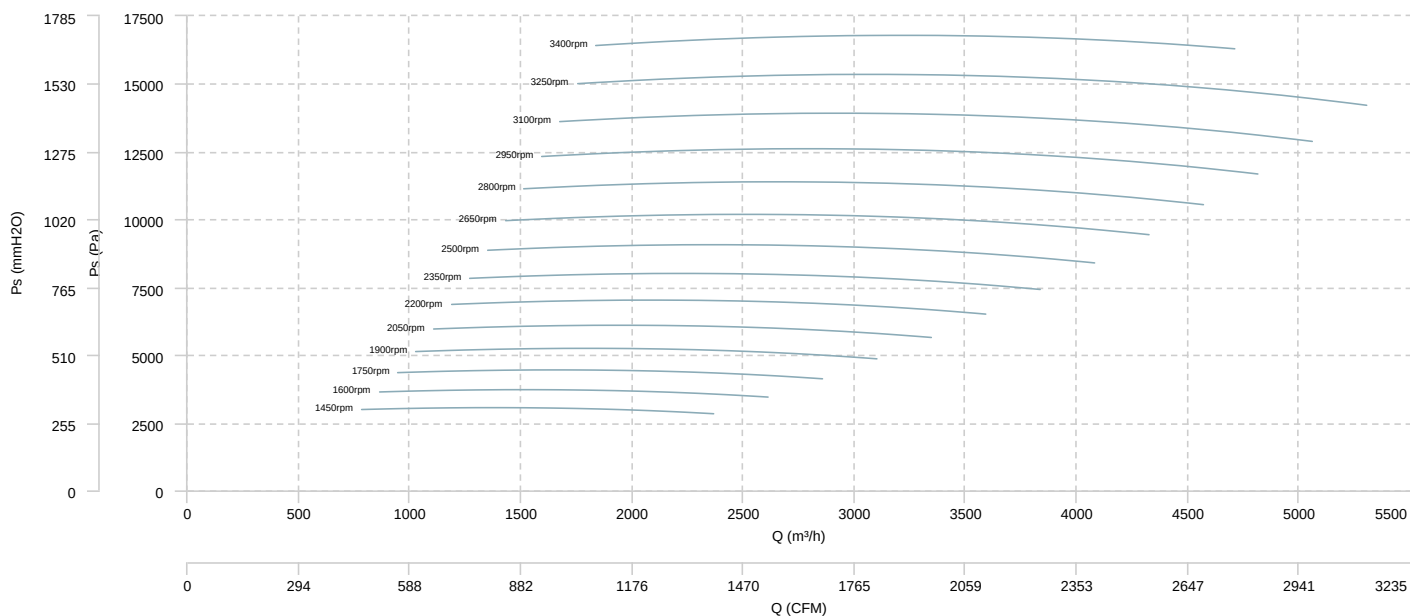


AIR FLOW - MECHANICAL POWER

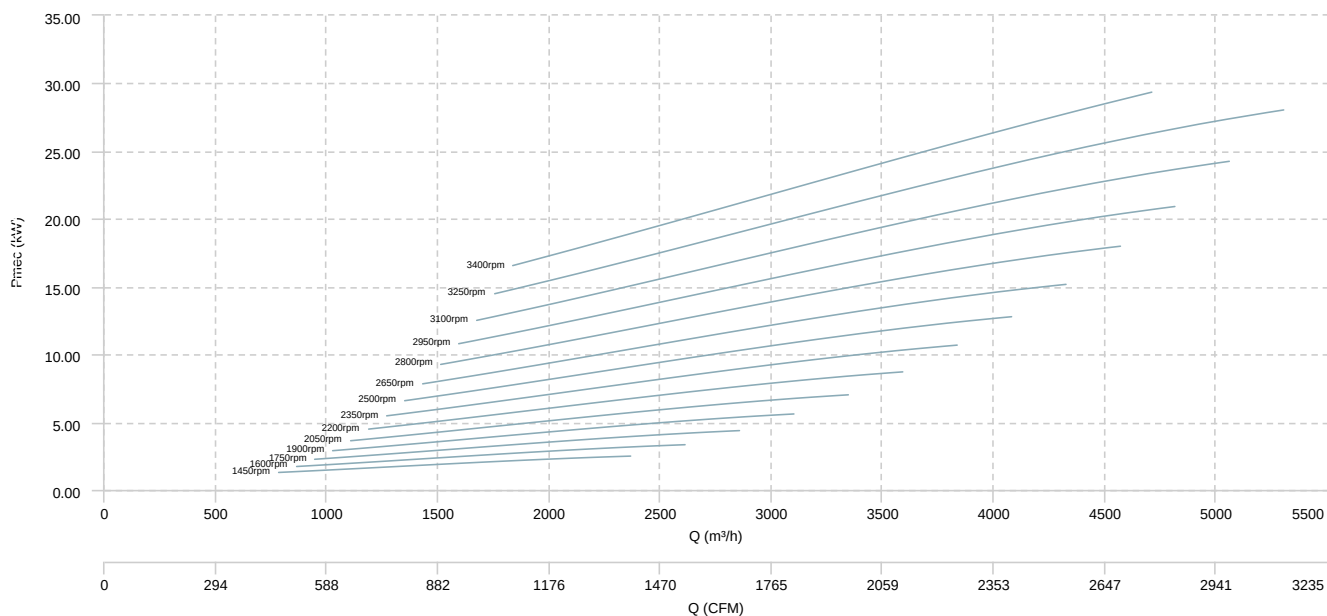


AATVP 800 ATEX

AIR FLOW - PRESSURE

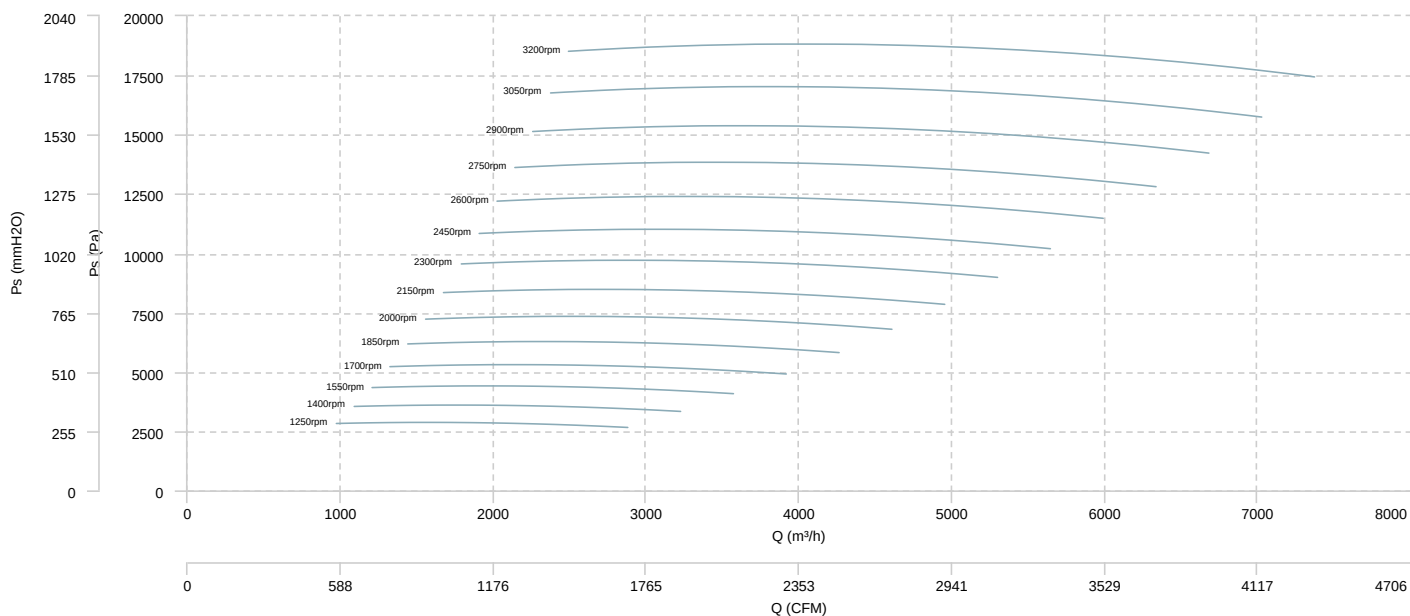


AIR FLOW - MECHANICAL POWER

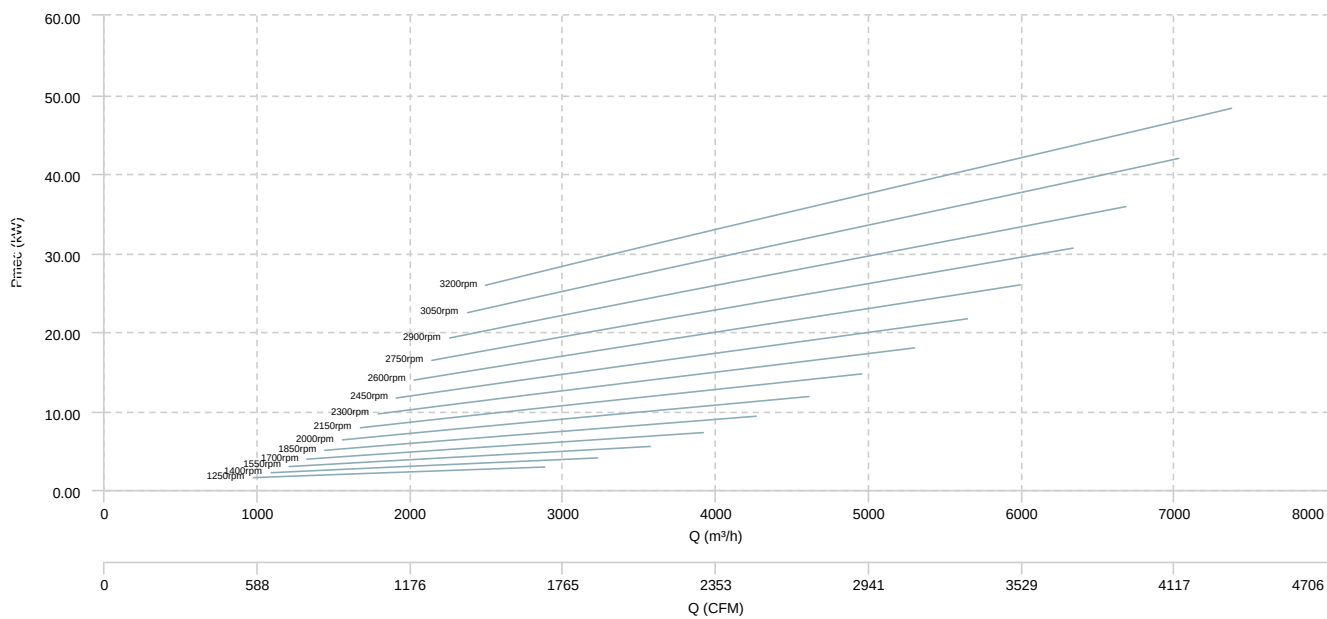


AATVP 900 ATEX

AIR FLOW - PRESSURE

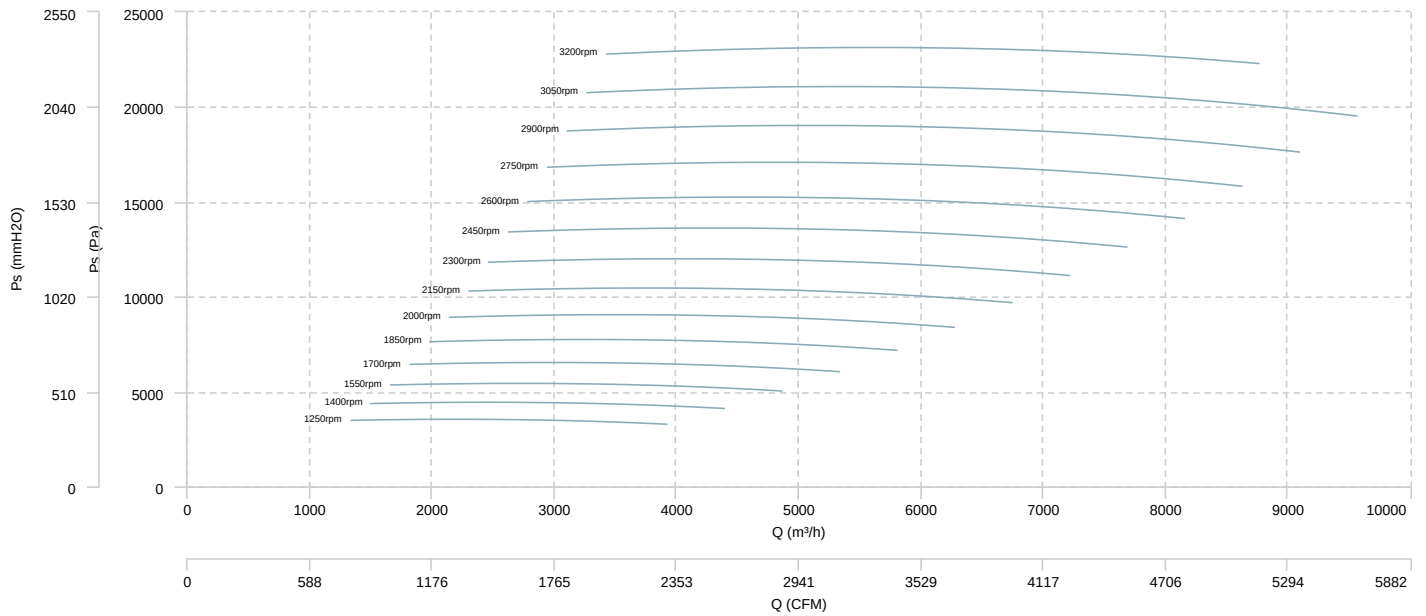


AIR FLOW - MECHANICAL POWER

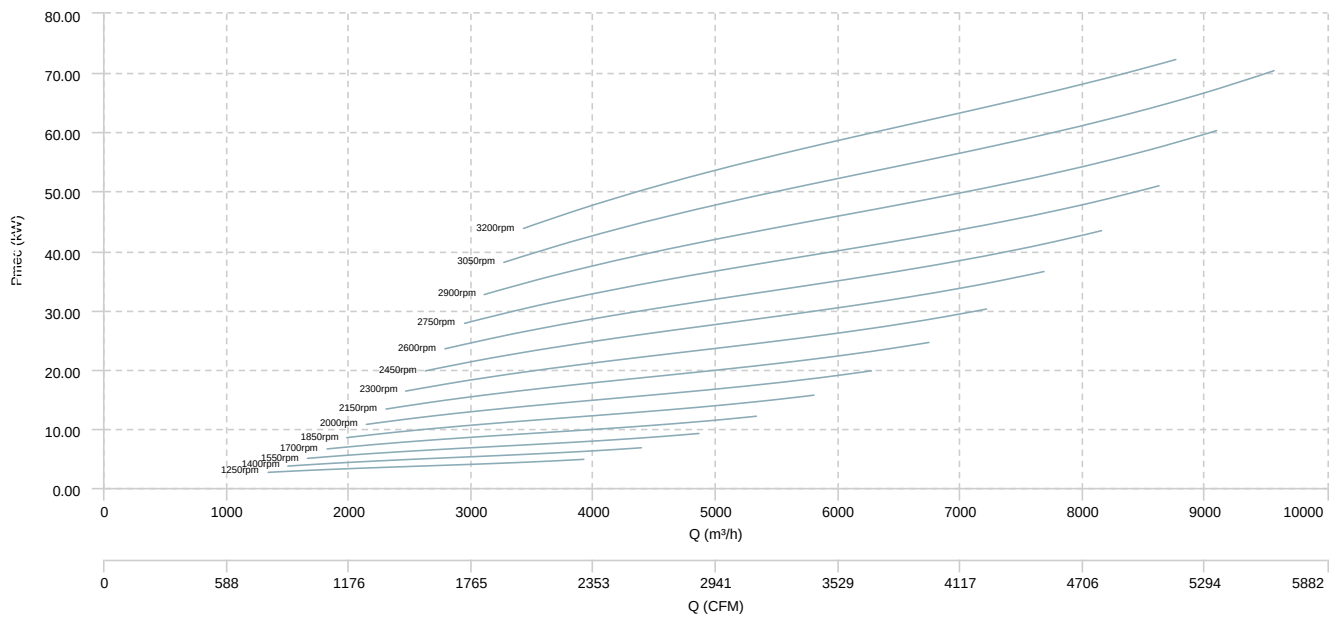


AATVP 1000 ATEX

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
AATVP 400 ATEX (1800rpm)	Inlet	34	46	53	57	58	53	47	44	62
AATVP 450 ATEX (1800rpm)	Inlet	38	50	56	61	61	57	50	47	66
AATVP 500 ATEX (1800rpm)	Inlet	40	52	58	62	63	59	52	49	67
AATVP 560 ATEX (1600rpm)	Inlet	40	52	58	62	63	59	52	49	68
AATVP 630 ATEX (1600rpm)	Inlet	43	55	61	65	66	62	55	52	71
AATVP 710 ATEX (1450rpm)	Inlet	44	56	62	66	67	63	56	53	71
AATVP 800 ATEX (1450rpm)	Inlet	47	59	65	69	70	65	59	56	74
AATVP 900 ATEX (1250rpm)	Inlet	46	58	65	69	70	65	58	55	74
AATVP 1000 ATEX (1250rpm)	Inlet	49	61	67	71	72	67	61	58	76

Notes:

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

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