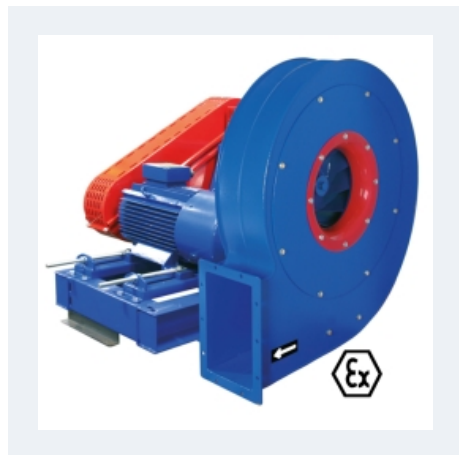


AATVG/N ATEX



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.
- 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

Accessories



AB



AC



AVR



AVS



BA-400



**BADS
ATEX**



**BIDS
ATEX**



EI



FS



**INT
ATEX**



JE 45



RI



SFC

Technical data

Three-phase motor

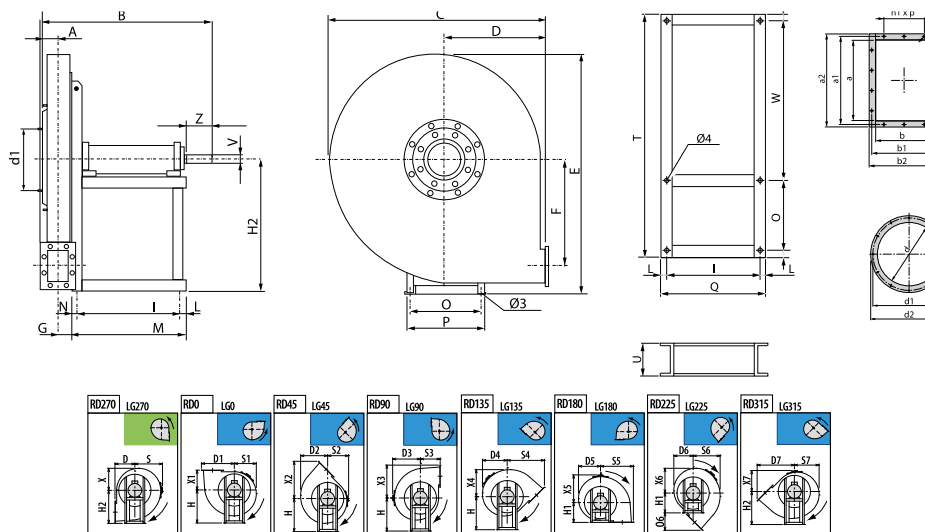
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	AATVG/N 450 ATEX	1800rpm - 3500rpm	0,37	7,50	1.880	59	73	1
	AATVG/N 500 ATEX	1800rpm - 3500rpm	0,55	15,00	2.550	61	88	1
	AATVG/N 560 ATEX	1600rpm - 3500rpm	2,20	18,50	3.660	64	115	1
	AATVG/N 630 ATEX	1600rpm - 3500rpm	4,00	30,00	5.200	67	155	1
	AATVG/N 710 ATEX	1450rpm - 3500rpm	5,50	45,00	9.320	73	237	1
	AATVG/N 800 ATEX	1450rpm - 3500rpm	7,50	55,00	11.780	76	279	1
	AATVG/N 900 ATEX	1250rpm - 3100rpm	15,00	90,00	16.190	74	436	1
	AATVG/N 1000 ATEX	1250rpm - 2900rpm	22,00	132,00	21.090	75	590	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
AATVG/N 450 ATEX	65	719	675	300	393	350	375	335	312
AATVG/N 500 ATEX	71	734	745	335	436	386	410	370	344
AATVG/N 560 ATEX	78	850	835	375	488	438	460	418	393
AATVG/N 630 ATEX	86	868	940	425	545	493	515	472	441

Model	D6	D7	E	F	G	H	H1	H2	I
AATVG/N 450 ATEX	319	490	712	285	56	400	300	400	407
AATVG/N 500 ATEX	350	546	794	318	63	450	335	450	407
AATVG/N 560 ATEX	392	613	893	360	71	500	375	500	477
AATVG/N 630 ATEX	438	688	1001	406	79	560	425	560	477

Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	Q
AATVG/N 450 ATEX	28	485	50	Nº8 M6x20	6x12	355	190	400	463
AATVG/N 500 ATEX	28	485	50	Nº8 M6x20	6x12	355	211	400	463
AATVG/N 560 ATEX	33	560	50	Nº8 M8x25	6x12	364	238	418	543
AATVG/N 630 ATEX	33	560	50	Nº8 M8x25	8x12	364	263	418	543

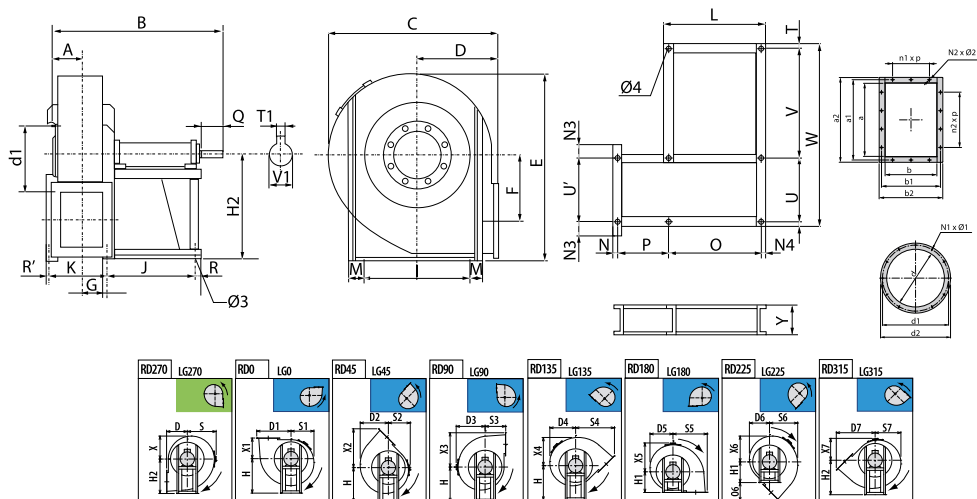
Model	R	S	S1	S2	S3	S4	S5	S6	S7
AATVG/N 450 ATEX	23	375	312	319	300	490	393	350	335
AATVG/N 500 ATEX	23	410	344	350	335	546	436	386	370
AATVG/N 560 ATEX	27	460	393	392	375	613	488	438	418

Model	R	S	S1	S2	S3	S4	S5	S6	S7
AATVG/N 630 ATEX	27	515	441	438	425	688	545	493	472

Model	T	U	V	W	X	X1	X2	X3	X4
AATVG/N 450 ATEX	1060	120	38	660	312	300	490	393	350
AATVG/N 500 ATEX	1180	120	38	780	344	335	546	436	386
AATVG/N 560 ATEX	1250	160	42	832	393	375	613	488	438
AATVG/N 630 ATEX	1250	160	48	832	441	425	688	545	493

Model	X5	X6	X7	Z	a	a1	a2	b	b1
AATVG/N 450 ATEX	375	335	319	80	146	182	216	105	139
AATVG/N 500 ATEX	410	370	350	80	166	200	236	117	151
AATVG/N 560 ATEX	460	418	392	110	185	219	255	131	165
AATVG/N 630 ATEX	515	472	438	110	207	241	277	148	182

Model	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVG/N 450 ATEX	175	205	241	275	-	1x112	14	14
AATVG/N 500 ATEX	187	228	265	298	-	1x112	14	14
AATVG/N 560 ATEX	201	255	292	325	-	1x112	17	17
AATVG/N 630 ATEX	218	285	332	365	1x112	1x112	17	17



Model	A	B	C	D	D1	D2	D3	D4	D5
AATVG/N 710 ATEX	102	996	1045	475	605	547	570	522	494
AATVG/N 800 ATEX	109	1026	1170	530	677	622	640	592	555
AATVG/N 900 ATEX	119	1189	1315	600	762	696	715	668	628
AATVG/N 1000 ATEX	137	1376	1460	670	849	805	790	765	691

Model	D6	D7	E	F	G	H	H1	H2	I
AATVG/N 710 ATEX	489	767	1124	454	150,5	630	475	550	526
AATVG/N 800 ATEX	545	854	1265	513	170,5	710	530	620	551
AATVG/N 900 ATEX	617	963	1428	578	196,5	800	600	695	663
AATVG/N 1000 ATEX	640	1074	1591	648	233,5	900	670	770	850

Model	J	K	L	M	N	N1xØ1	N2xØ2	N3	N4
AATVG/N 710 ATEX	551	261	629	32	20	Nº8 M8x25	8x12	63	39
AATVG/N 800 ATEX	551	281	629	32	30	Nº8 M8x25	10x12	93	39
AATVG/N 900 ATEX	607	303	697	36	45	Nº12 M8x25	10x12	116	45
AATVG/N 1000 ATEX	760	367	850	55	50	Nº12 M8x25	10x12	112,5	45

Model	O	O6	P	Q	R	R'	S	S1	S2
AATVG/N 710 ATEX	551	292	261	110	39	20	570	494	489
AATVG/N 800 ATEX	551	324	281	110	39	30	640	555	545
AATVG/N 900 ATEX	607	363	303	140	45	45	715	628	617
AATVG/N 1000 ATEX	760	404	367	140	45	50	790	691	640

Model	S3	S4	S5	S6	S7	T	T1	U	U'
AATVG/N 710 ATEX	475	767	605	547	522	32	14	526	570
AATVG/N 800 ATEX	530	854	677	622	592	32	16	526	600
AATVG/N 900 ATEX	600	963	762	696	668	36	18	663	663
AATVG/N 1000 ATEX	670	1074	849	805	765	55	20	850	780

Model	V	V1	X	X1	X2	X3	X4	X5	X6
AATVG/N 710 ATEX	1010	48	494	475	767	605	547	570	522
AATVG/N 800 ATEX	1010	55	555	530	854	677	622	640	592
AATVG/N 900 ATEX	1065	65	628	600	963	762	696	715	668
AATVG/N 1000 ATEX	1240	75	691	670	1074	849	805	790	765

Model	X7	Y	a	a1	a2	b	b1	b2	d
AATVG/N 710 ATEX	489	180	231	265	301	166	200	236	320
AATVG/N 800 ATEX	545	180	258	292	328	185	219	255	360
AATVG/N 900 ATEX	617	200	288	332	368	205	249	285	405
AATVG/N 1000 ATEX	640	200	322	366	402	229	273	309	455

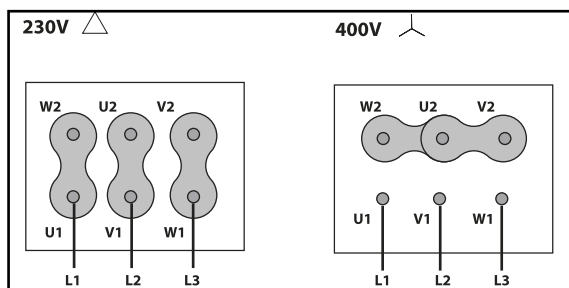
Model	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVG/N 710 ATEX	366	400	1x112	1x112	19	19
AATVG/N 800 ATEX	405	440	1x112	2x112	19	19

Model	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVG/N 900 ATEX	448	485	1x125	2x125	19	19
AATVG/N 1000 ATEX	497	535	1x125	2x125	24	24

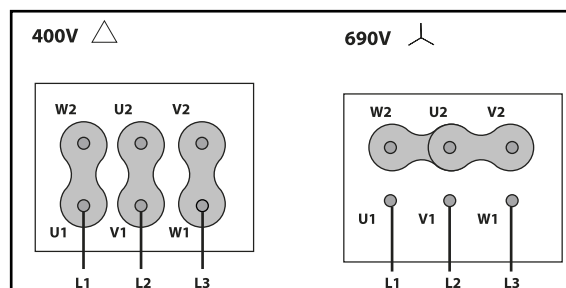
Wiring diagram

Wiring diagram Nº 1

230/400V



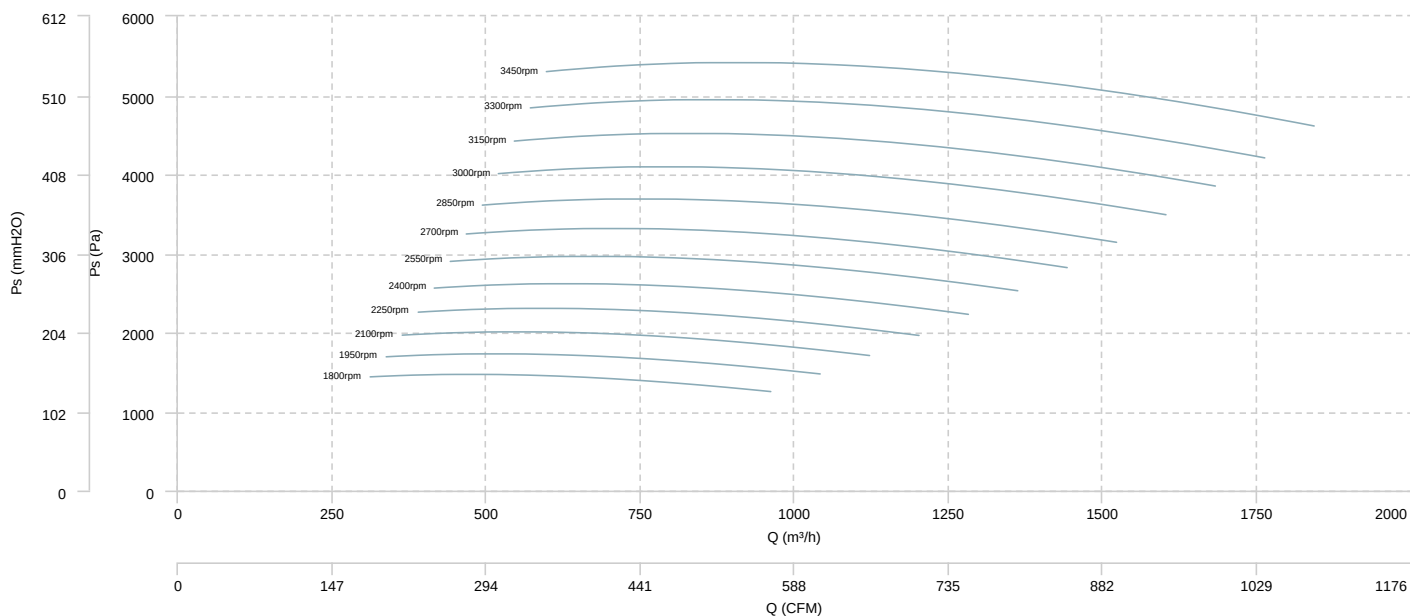
400/690V



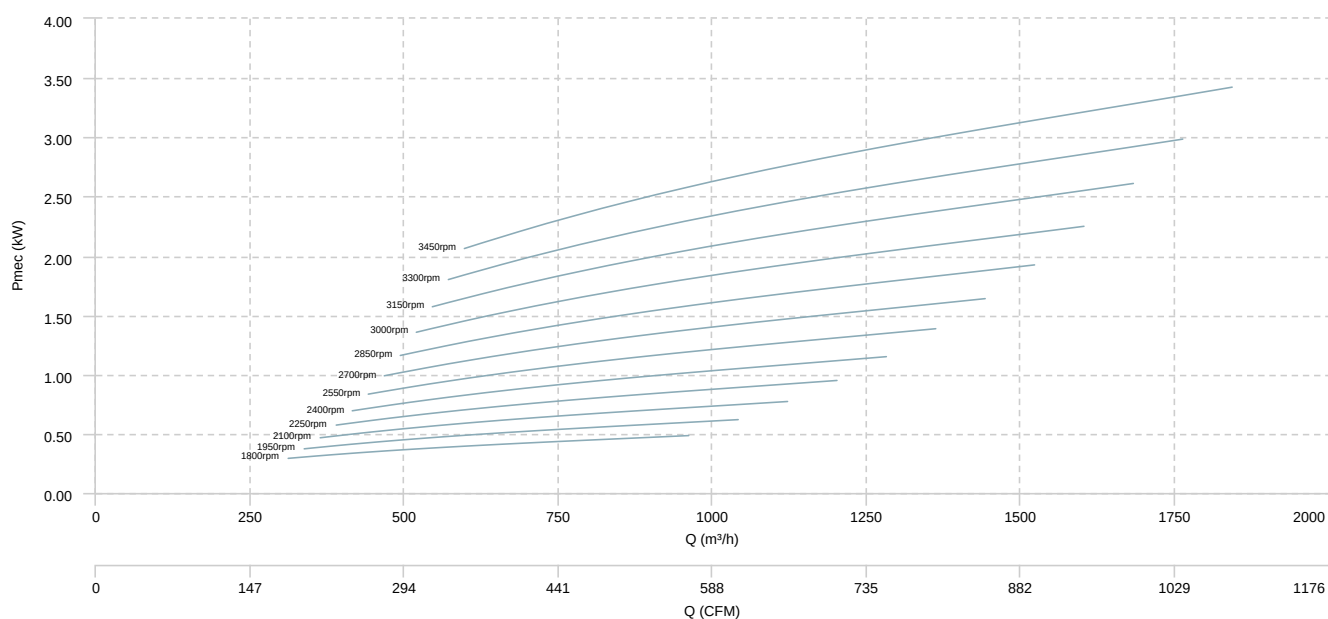
CHARACTERISTIC CURVE

AATVG/N 450 ATEX

AIR FLOW - PRESSURE

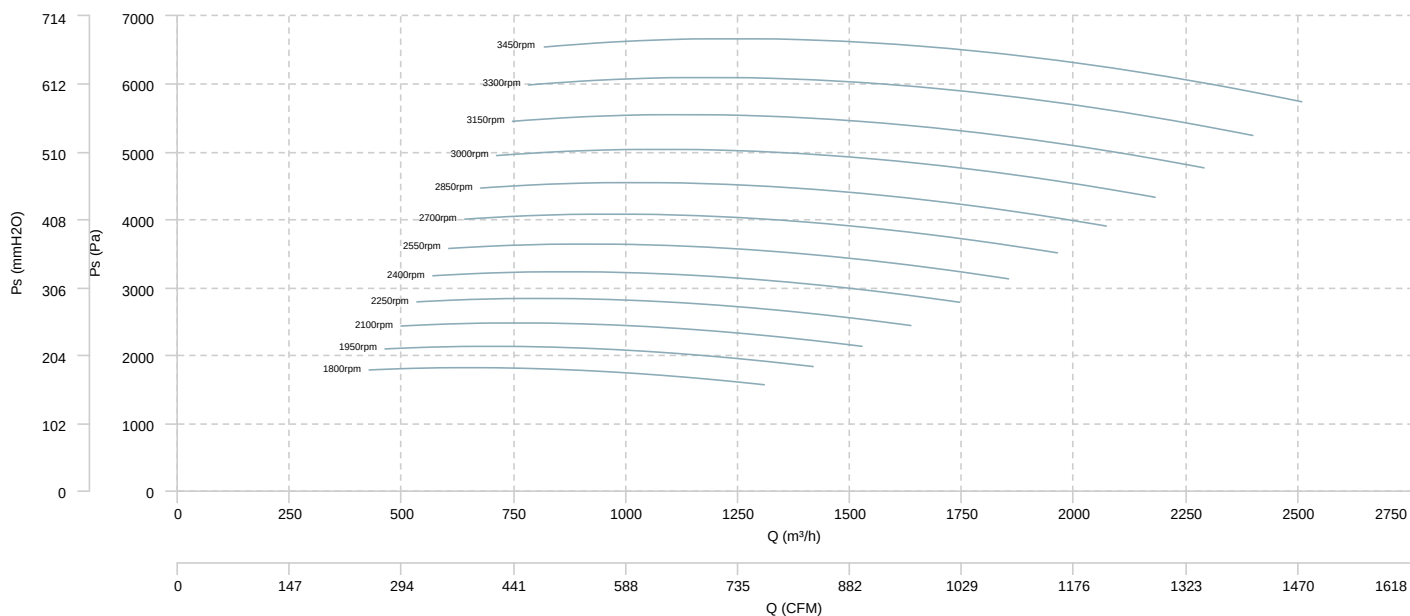


AIR FLOW - MECHANICAL POWER

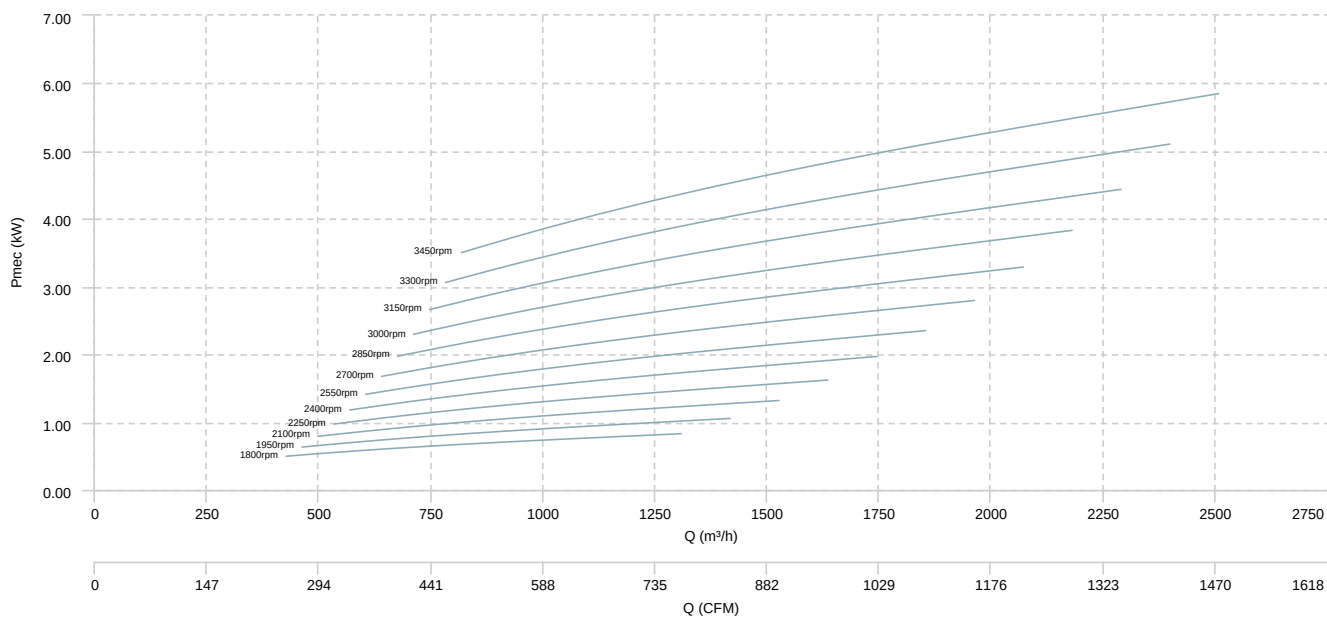


AATVG/N 500 ATEX

AIR FLOW - PRESSURE

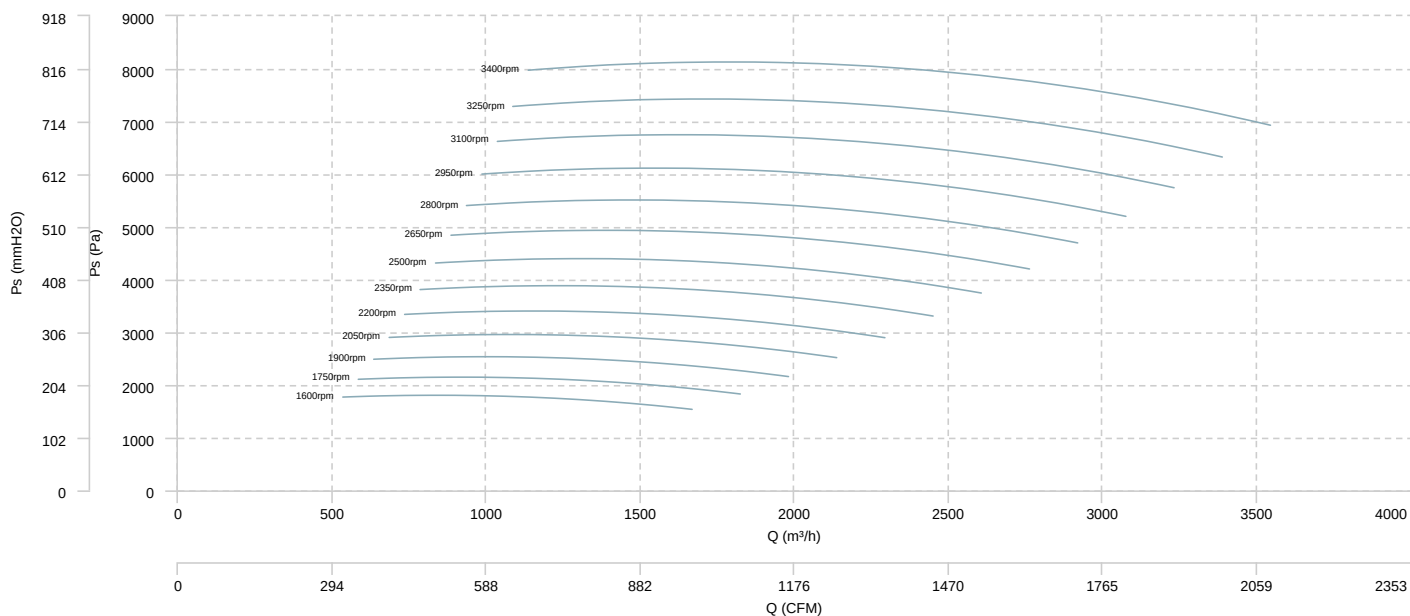


AIR FLOW - MECHANICAL POWER

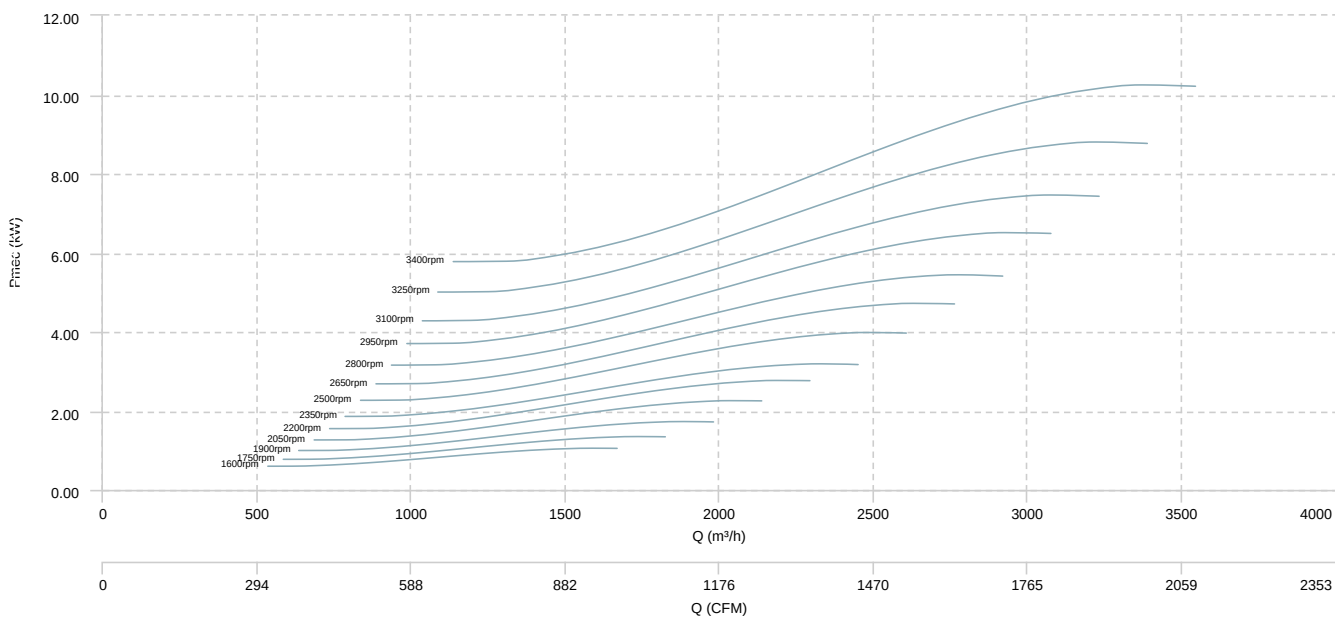


AATVG/N 560 ATEX

AIR FLOW - PRESSURE

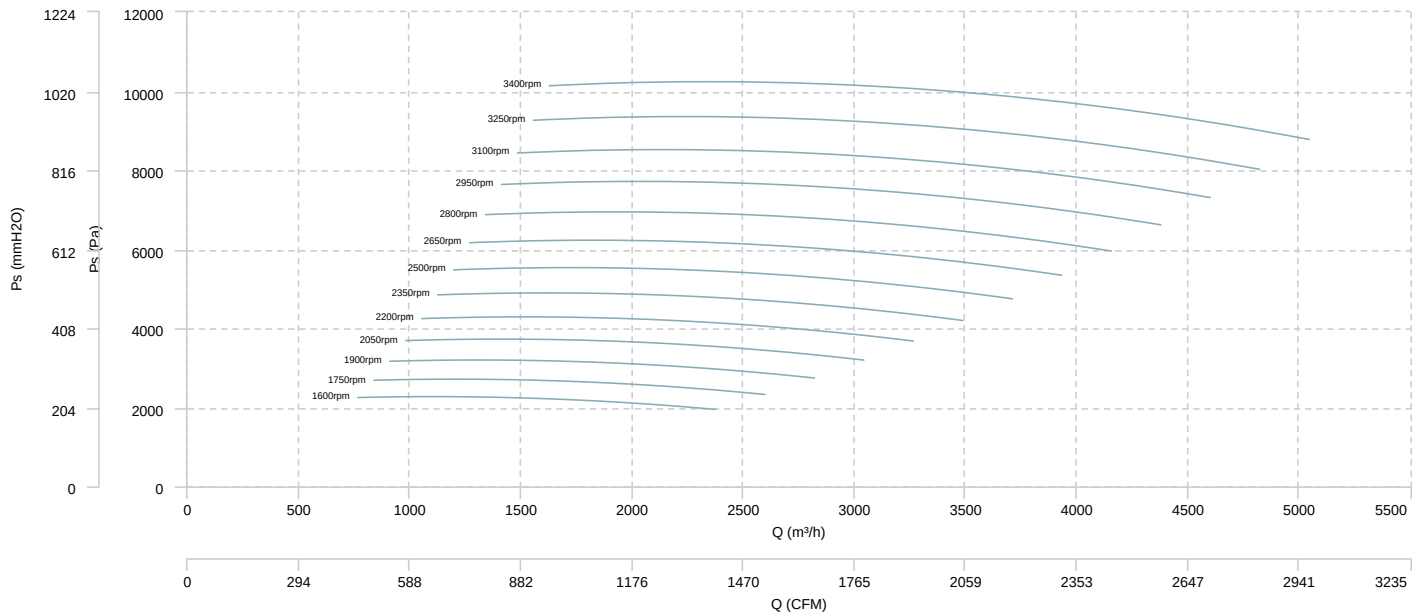


AIR FLOW - MECHANICAL POWER

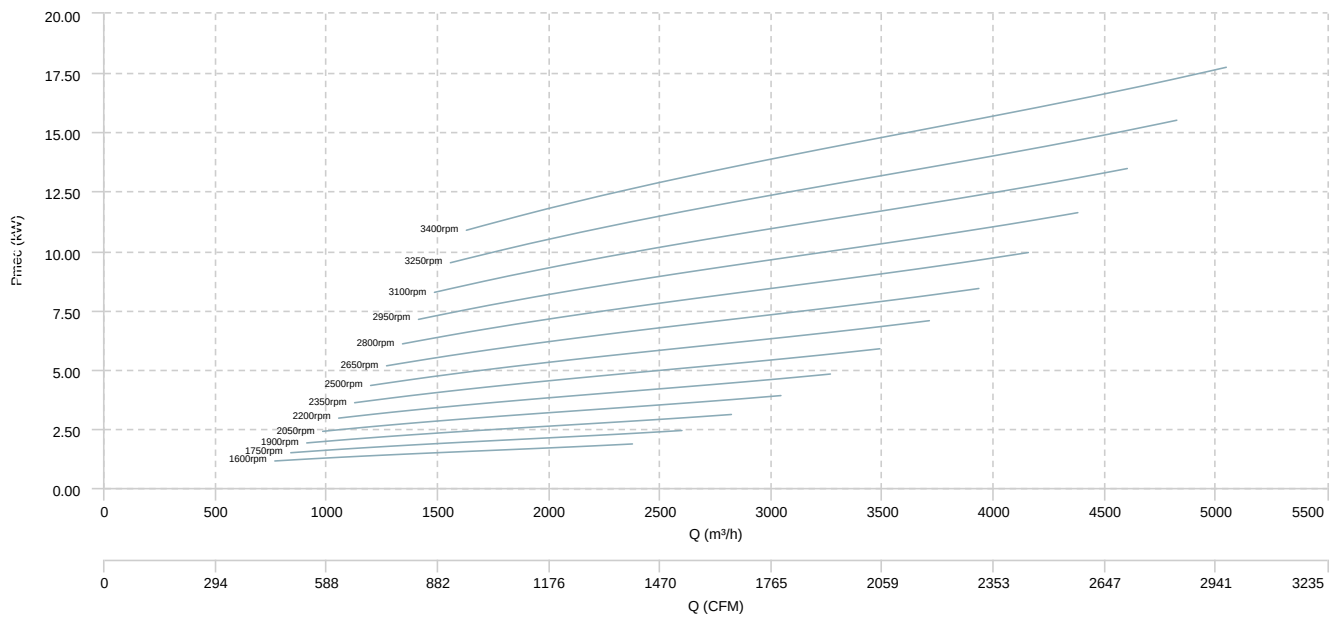


AATVG/N 630 ATEX

AIR FLOW - PRESSURE

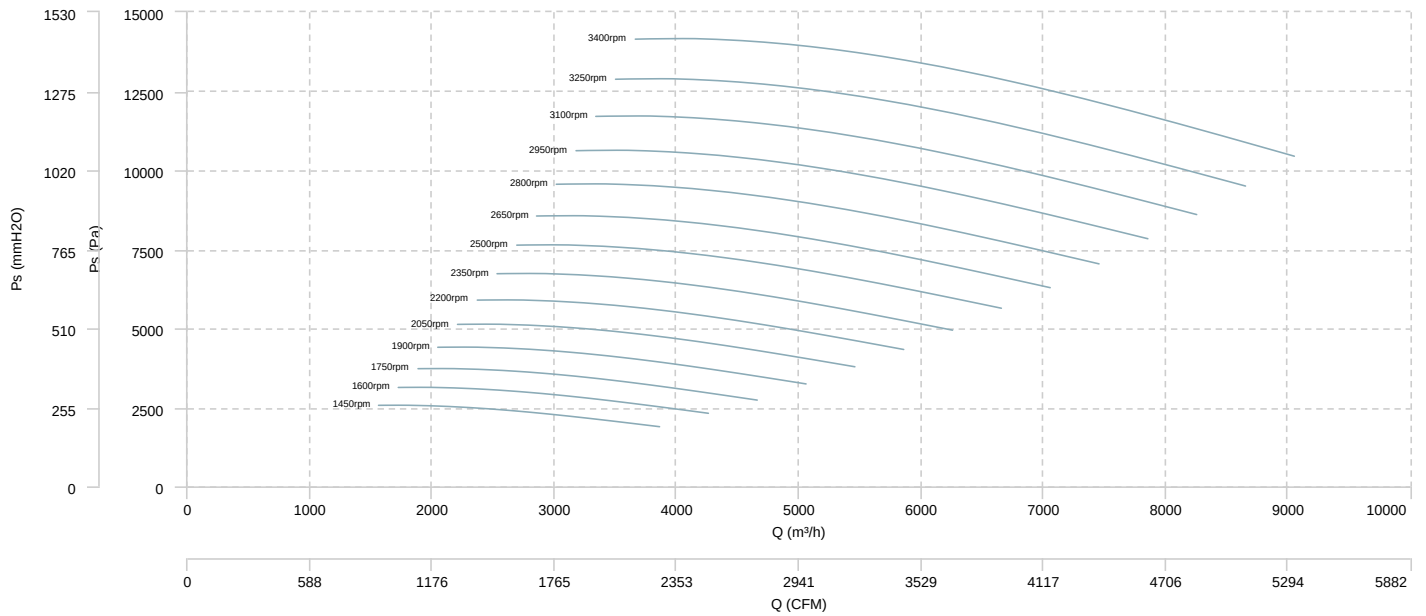


AIR FLOW - MECHANICAL POWER

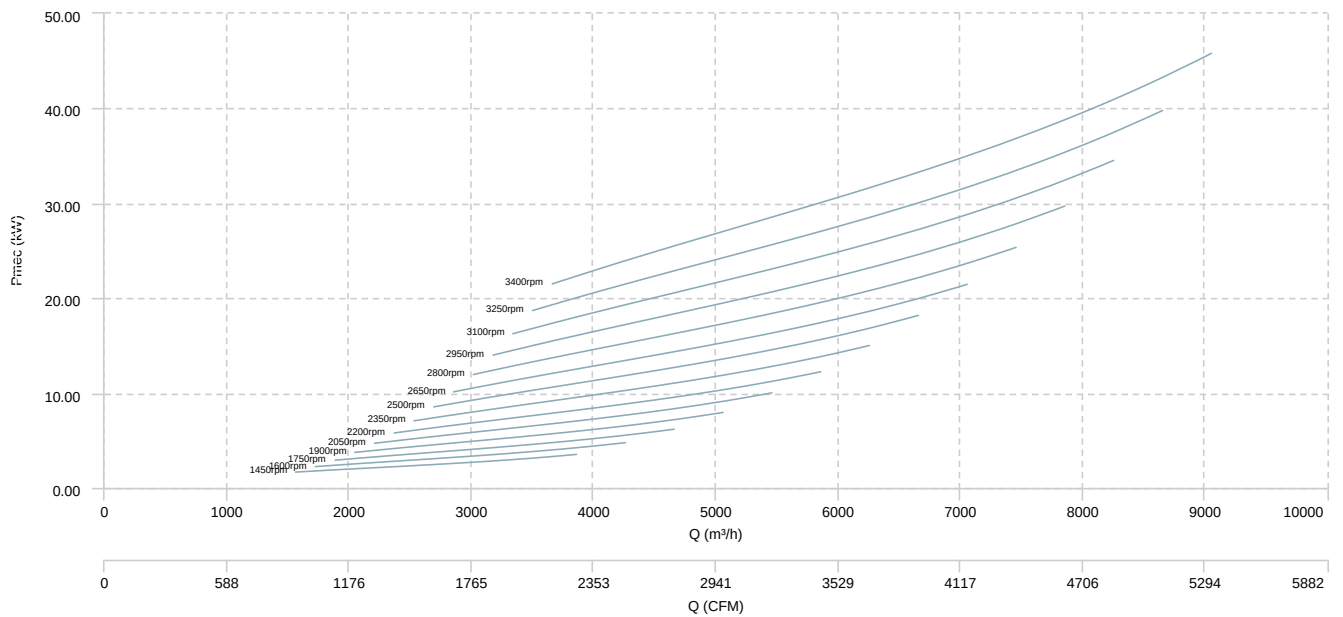


AATVG/N 710 ATEX

AIR FLOW - PRESSURE

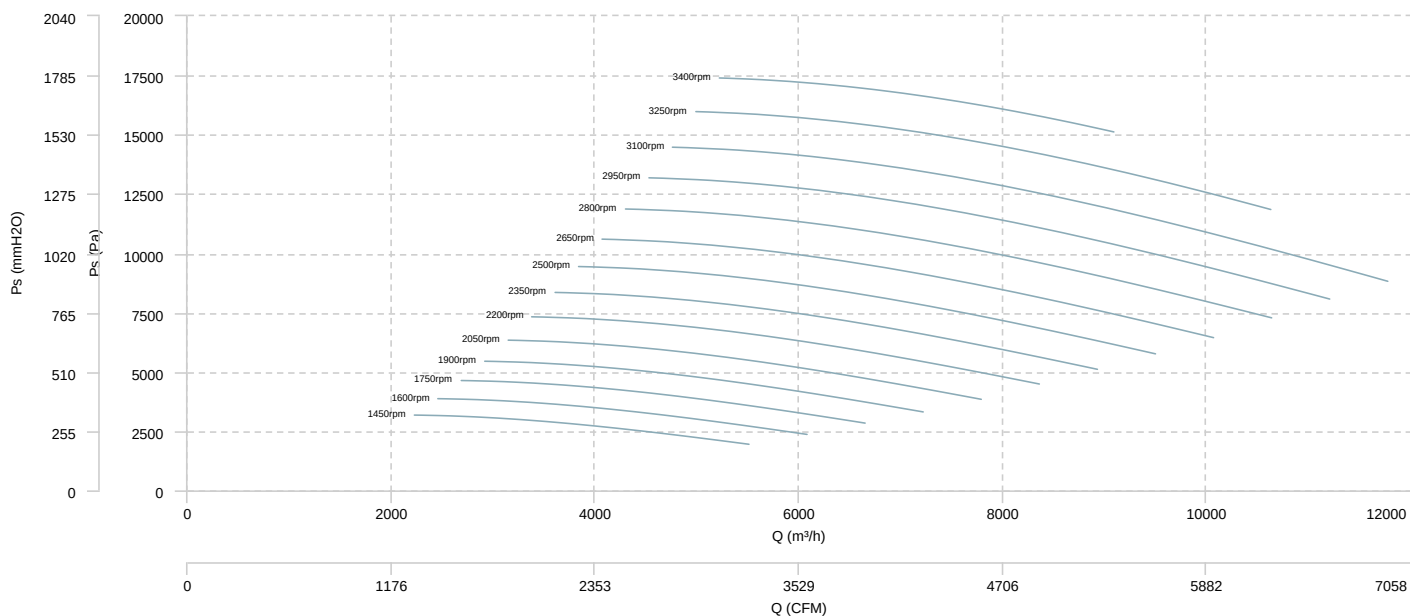


AIR FLOW - MECHANICAL POWER

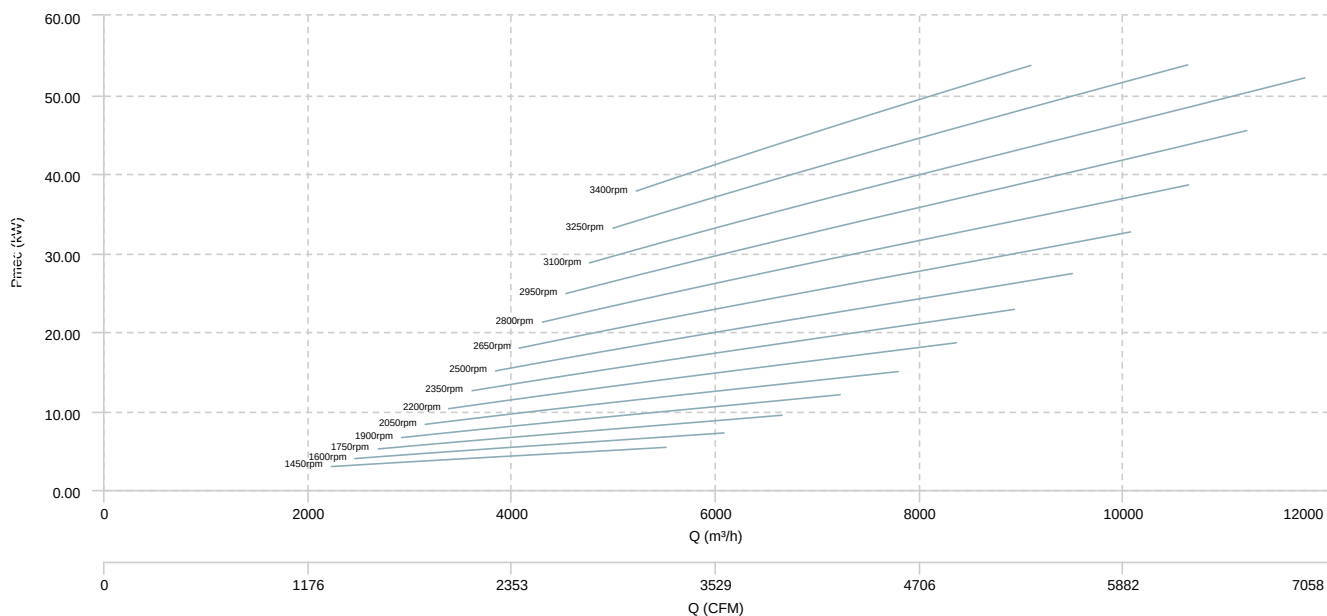


AATVG/N 800 ATEX

AIR FLOW - PRESSURE

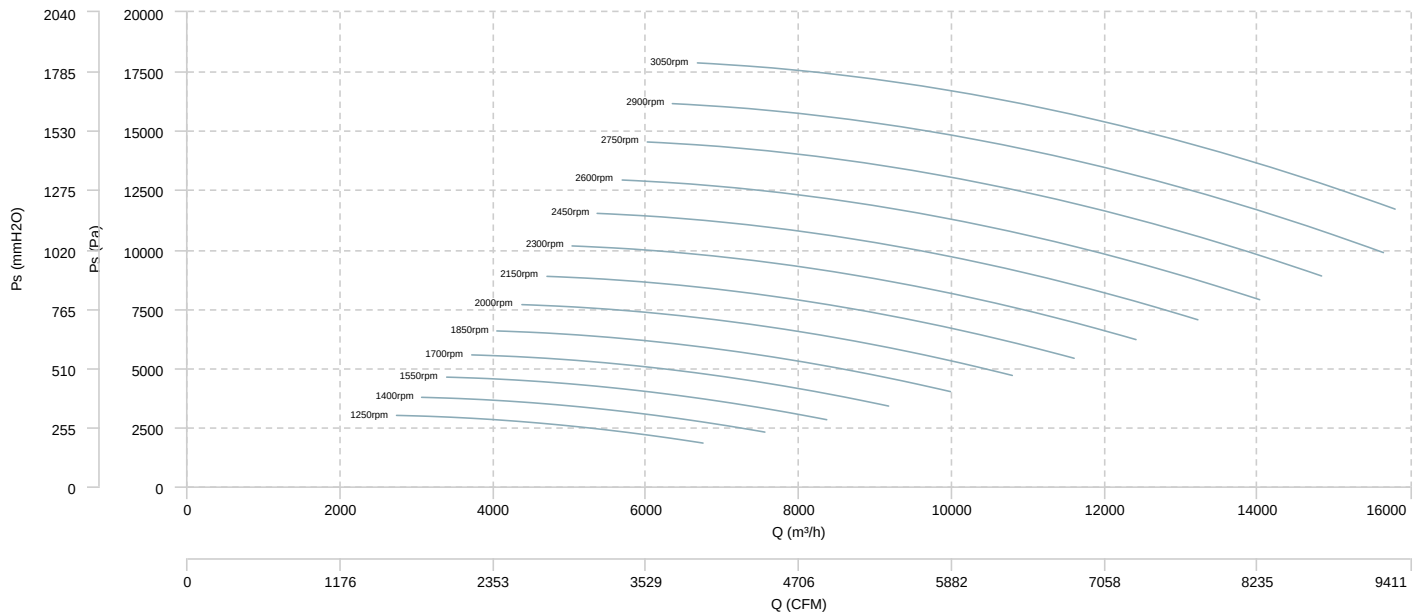


AIR FLOW - MECHANICAL POWER

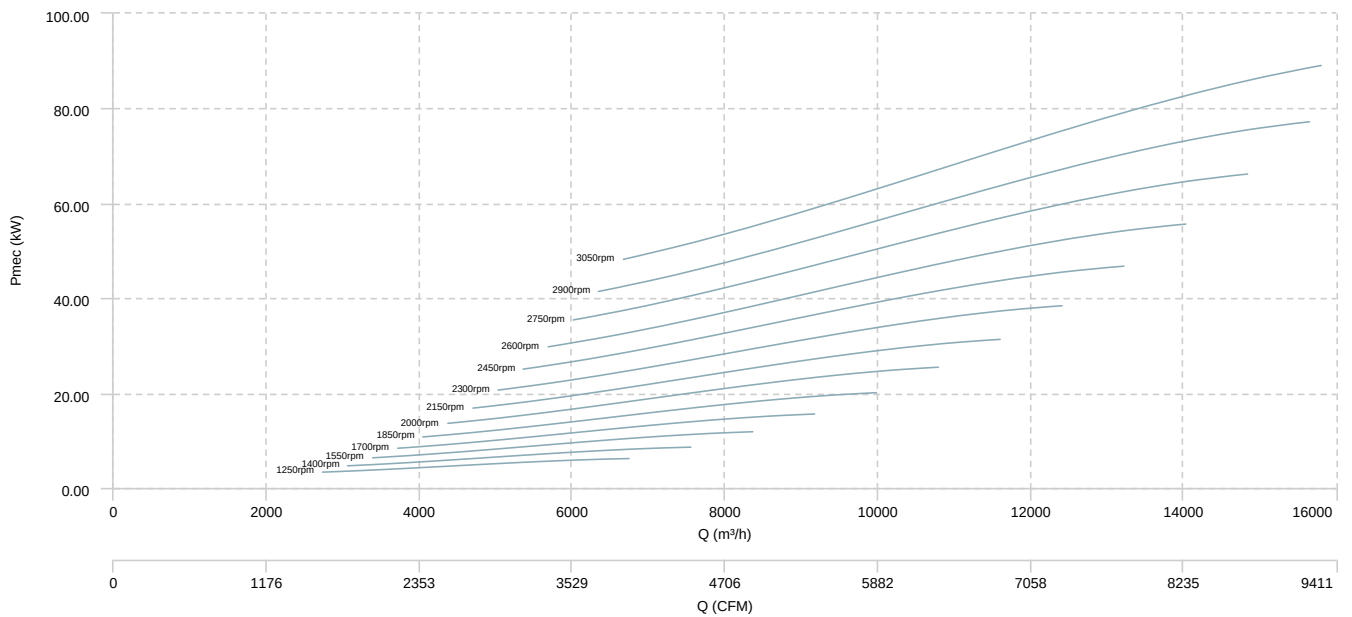


AATVG/N 900 ATEX

AIR FLOW - PRESSURE

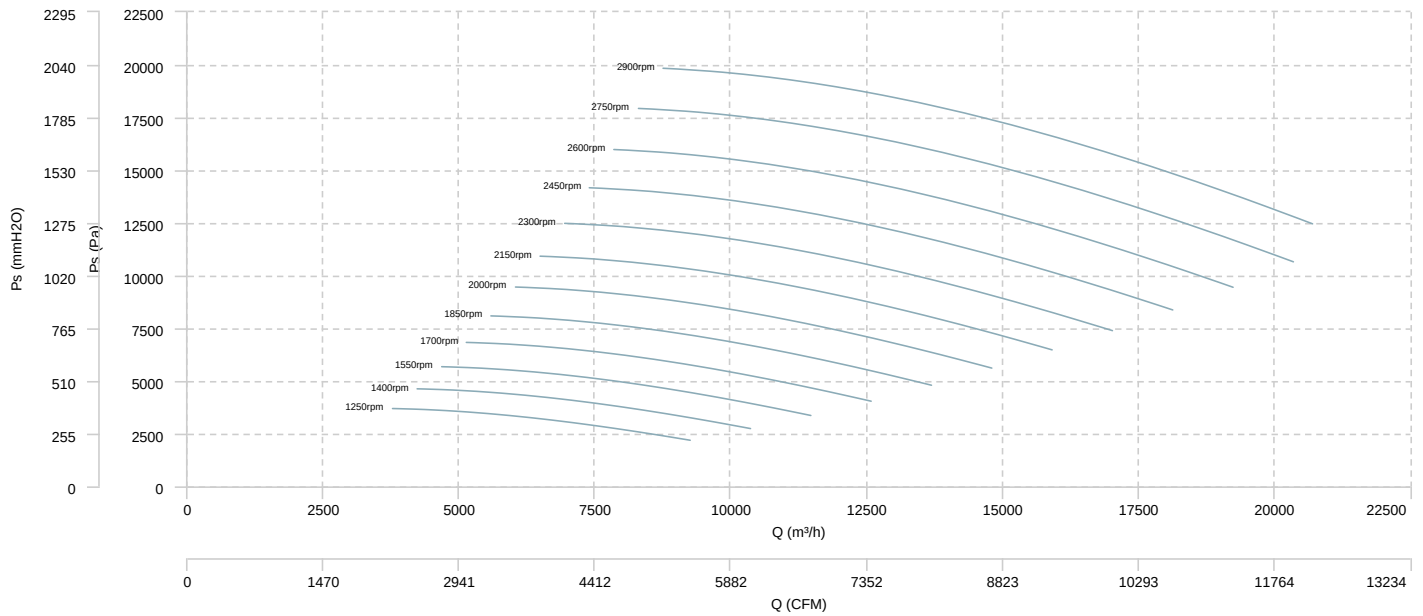


AIR FLOW - MECHANICAL POWER

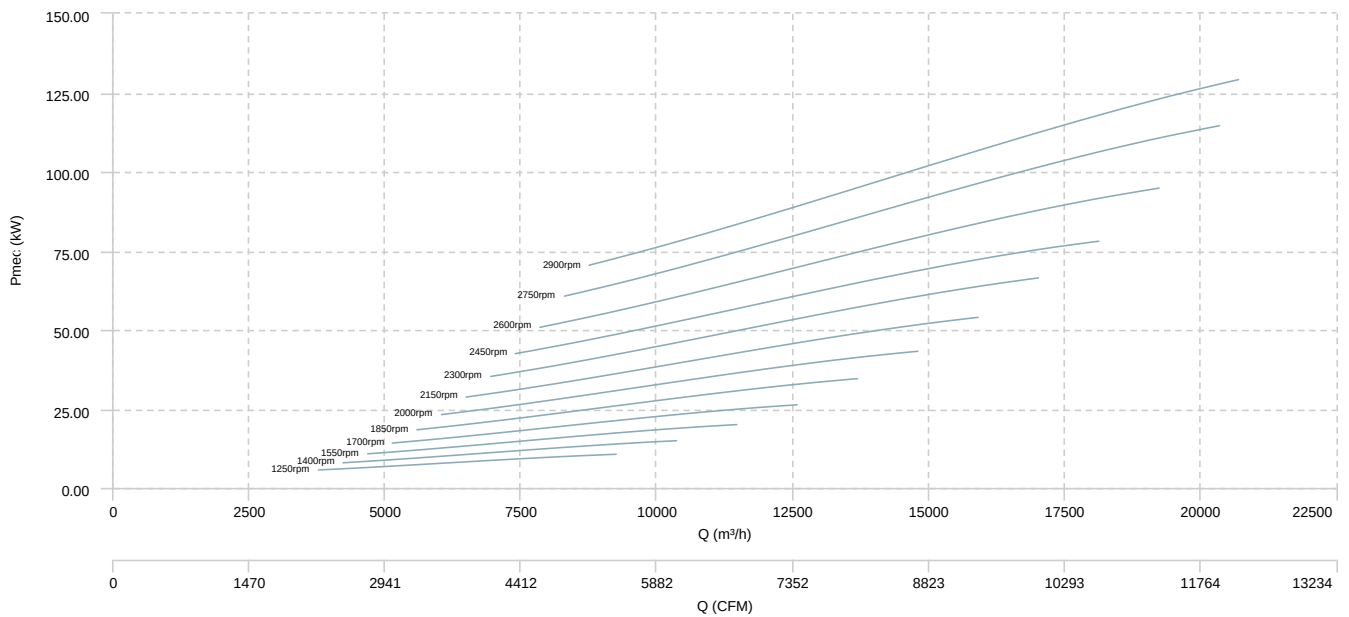


AATVG/N 1000 ATEX

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
AATVG/N 450 ATEX (1800rpm)	Inlet	43	55	61	65	66	61	55	52	70
AATVG/N 500 ATEX (1800rpm)	Inlet	45	57	63	68	68	64	57	54	73
AATVG/N 560 ATEX (1600rpm)	Inlet	45	57	64	68	69	64	58	55	73
AATVG/N 630 ATEX (1600rpm)	Inlet	48	60	67	71	72	67	60	57	76
AATVG/N 710 ATEX (1450rpm)	Inlet	52	64	71	75	76	71	65	62	80
AATVG/N 800 ATEX (1450rpm)	Inlet	55	67	74	78	79	74	68	65	83
AATVG/N 900 ATEX (1250rpm)	Inlet	53	55	71	76	76	72	65	62	81
AATVG/N 1000 ATEX (1250rpm)	Inlet	56	68	74	78	79	74	68	65	83

Notes:

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

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