

AATVG/N



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.
- Fully welded housing.
- High efficiency simple inlet backward curved impeller made of Fe360 sheet statically and dynamically balanced. Impellers are painted with epoxy primer that resists temperatures up to 300°C.
- Motorized fan with basement (configuration 12). Full equipped fans including: motor, pulleys, belts, belts guard and shaft guard. Fitted over a base plate.
- Standard orientation LG270.
- It allows adjusting the orientation locally from models 450 to 630. Models sizes from 710 to 1000 size the orientation is fixed.

Accessories



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.
- Maximum working temperature: carried air: 200°C, ambient: 60°C.

UNDER REQUEST:

- 60Hz fans and special voltages.
- 2 speed motors.
- Fan with free shaft (configuration 1) or with motor supported on the pedestal side (configuration 9).
- Flameproof or explosionproof fans with ATEX certificated motors.
- Fan for air working temperatures up to 350°C with R/R (cooling impeller).
- Hot-dipped galvanised or stainless steel fans.
- Orientation: RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315, LG0, LG45, LG90, LG135, LG180, LG225, LG315.

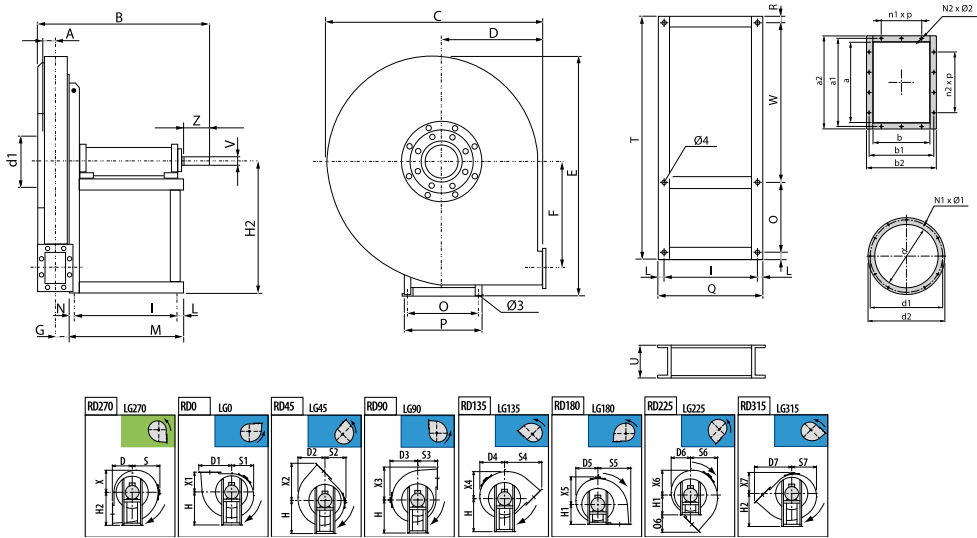
Technical data

Three-phase motor

Code	Model	R.P.M.	Rated I. (A) 400V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
5067045__R__	AATVG/N 450	1800	-	7,50	1.870	44	73	1
5067050__R__	AATVG/N 500	1800	-	15	2.540	47	88	1
5067056__R__	AATVG/N 560	1600	-	18,50	3.650	47	115	1
5067063__R__	AATVG/N 630	1600	-	30	5.190	50	155	1
5067071__R__	AATVG/N 710	1450	-	45	9.320	54	237	1
5067080__R__	AATVG/N 800	1450	-	55	11.780	57	279	1
5067090__R__	AATVG/N 900	1250	-	90	16.190	55	436	1
5067100__R__	AATVG/N 1000	1250	-	132	21.090	57	590	1

Notes:
 * 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	65	719	675	300	393	350	375	335	312
AATVG/N 500	71	734	745	335	436	386	410	370	344
AATVG/N 560	78	850	835	375	488	438	460	418	393
AATVG/N 630	86	868	940	425	545	493	515	472	441

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

Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	Q
AATVG/N 450	28	485	50	8x8	6x12	355	190	400	463
AATVG/N 500	28	485	50	8x8	6x12	355	211	400	463
AATVG/N 560	33	560	50	8x10	6x12	364	238	418	543
AATVG/N 630	33	560	50	8x12	8x12	364	263	418	543

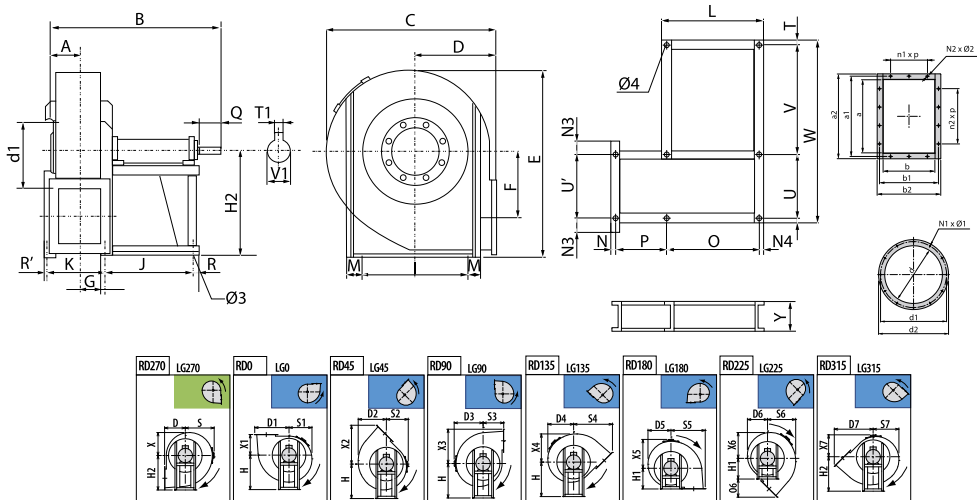
Model	R	S	S1	S2	S3	S4	S5	S6	S7
AATVG/N 450	23	375	312	319	300	490	393	350	335
AATVG/N 500	23	410	344	350	335	546	436	386	370
AATVG/N 560	27	460	393	392	375	613	488	438	418
AATVG/N 630	27	515	441	438	425	688	545	493	472

Model	T	U	V	W	X	X1	X2	X3	X4

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

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

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



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

Model	D6	D7	E	F	G	H	H1	H2	I
AATVG/N 710	489	767	1124	454	150,5	630	475	550	526

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

Model	J	K	L	M	N	N1xØ1	N2xØ2	N3	N4
AATVG/N 710	551	261	629	32	20	8x12	8x12	63	39
AATVG/N 800	551	281	629	32	30	8x12	10x12	93	39
AATVG/N 900	607	303	697	36	45	12x12	10x12	116	45
AATVG/N 1000	760	367	850	55	50	12x12	10x12	112,5	45

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

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

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

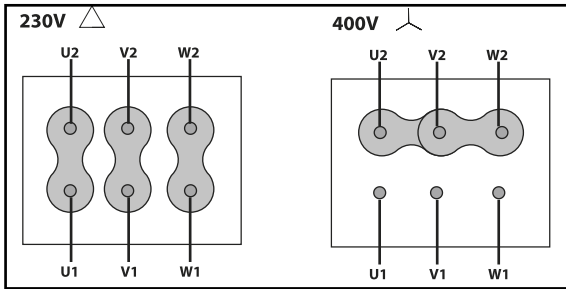
Model	X7	Y	a	a1	a2	b	b1	b2	d
AATVG/N 710	489	180	231	265	301	166	200	236	320
AATVG/N 800	545	180	258	292	328	185	219	255	360
AATVG/N 900	617	200	288	332	368	205	249	285	405
AATVG/N 1000	640	200	322	366	402	229	273	309	455

Model	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVG/N 710	366	400	1x112	1x112	19	19
AATVG/N 800	405	440	1x112	2x112	19	19
AATVG/N 900	448	485	1x125	2x125	19	19
AATVG/N 1000	497	535	1x125	2x125	24	24

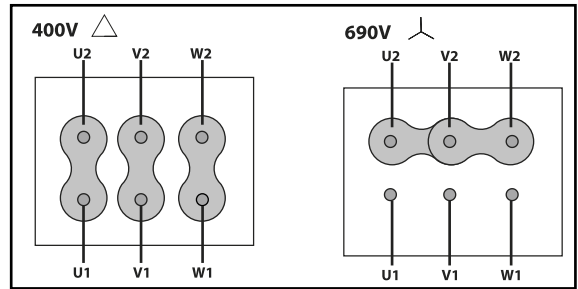
Wiring diagram

DIAGRAM Nº 1

230/400V



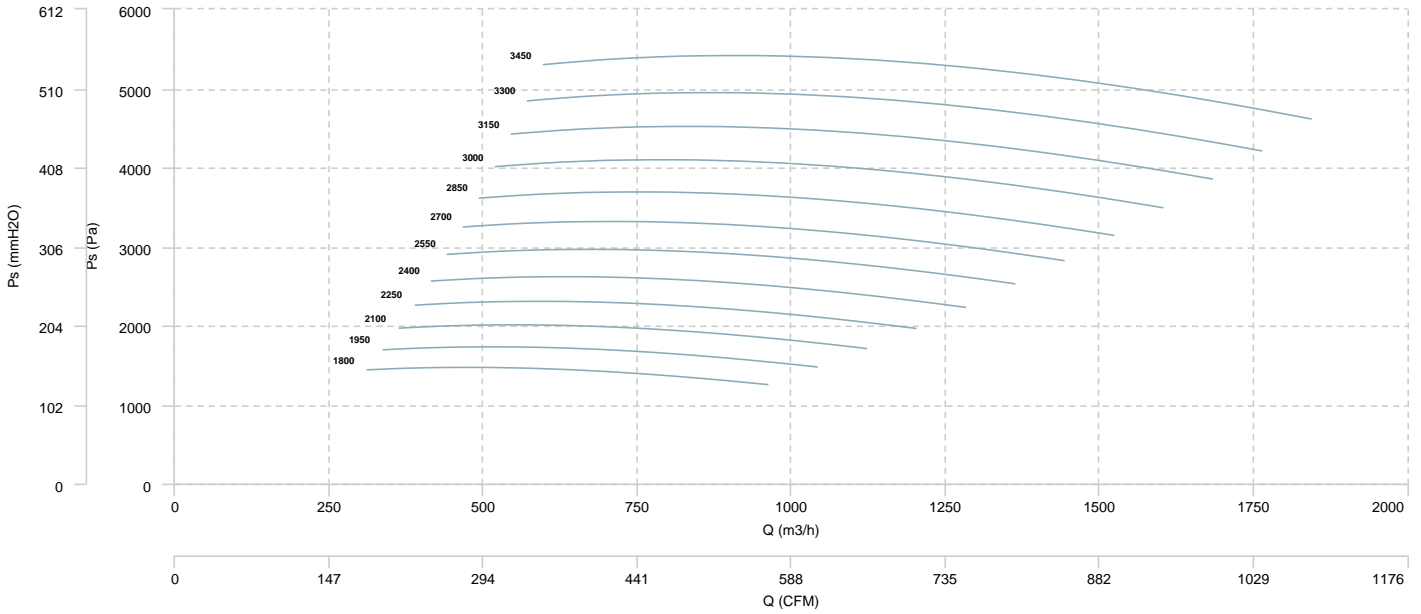
400/690V



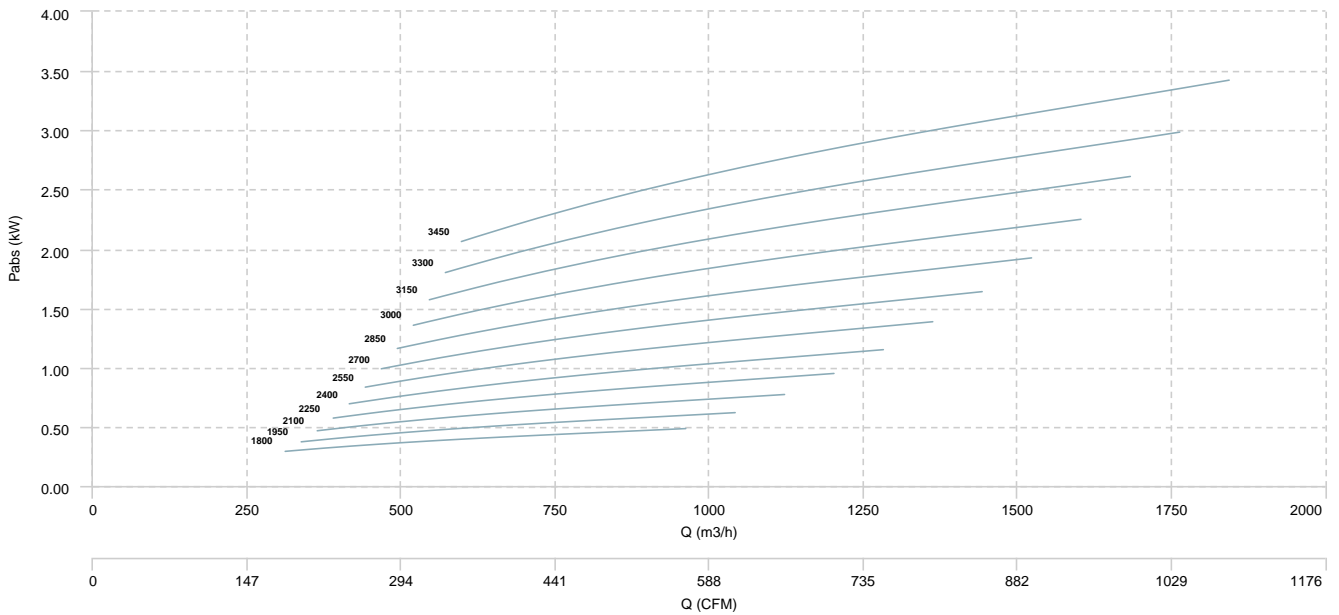
CHARACTERISTIC CURVE

AATVG/N 450

AIR FLOW - PRESSURE

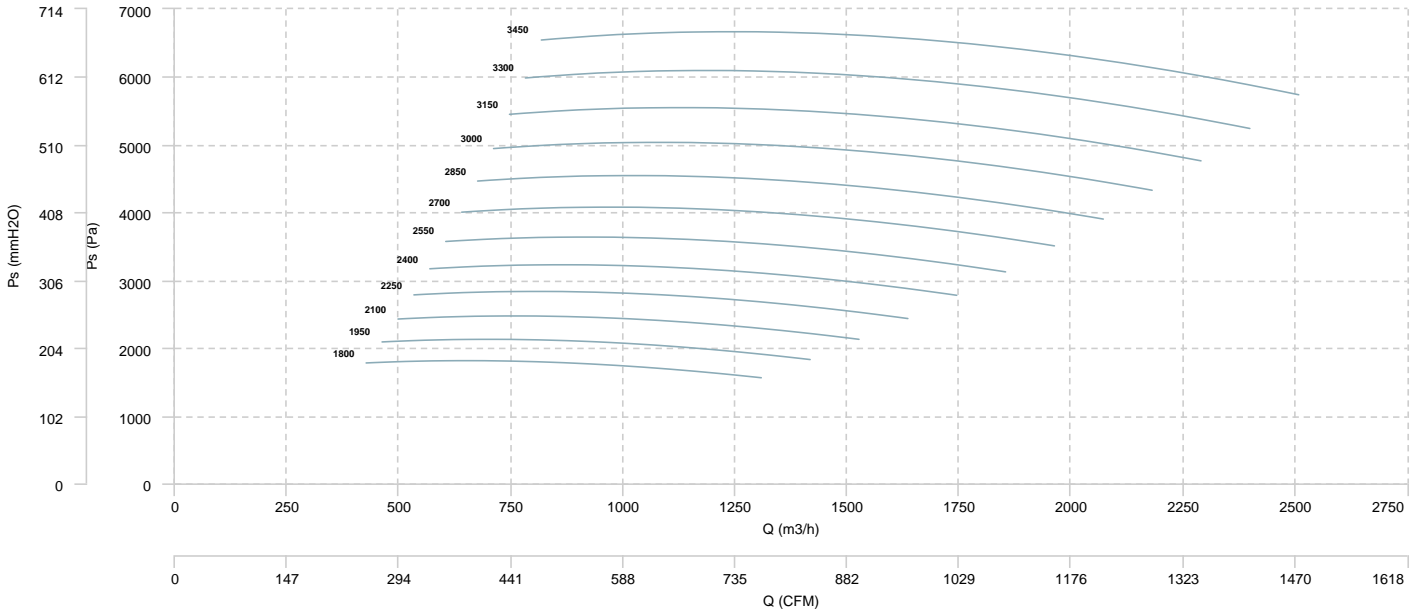


AIR FLOW - MECHANICAL POWER

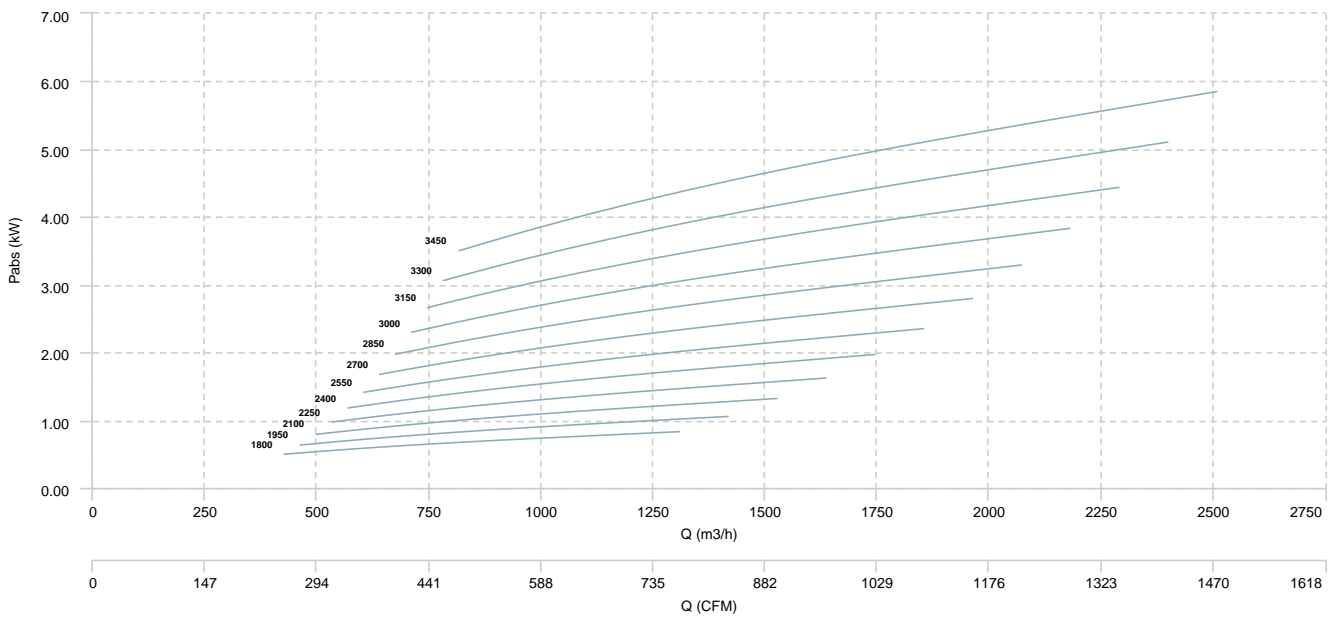


AATVG/N 500

AIR FLOW - PRESSURE

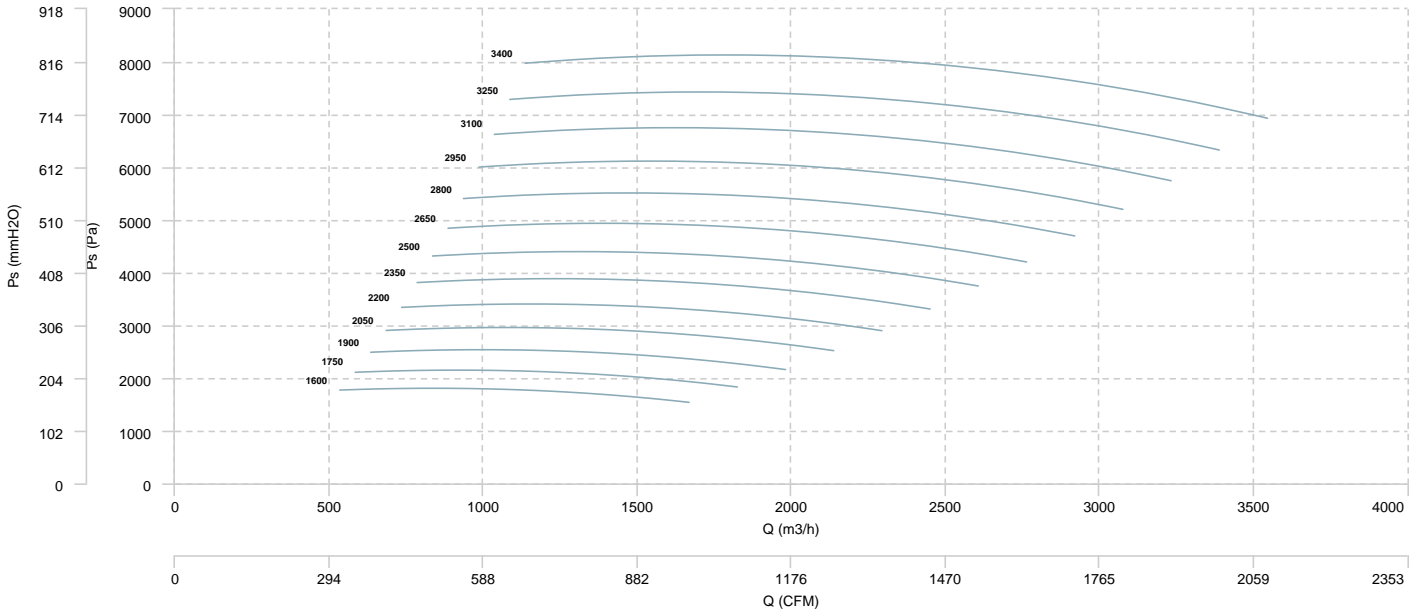


AIR FLOW - MECHANICAL POWER

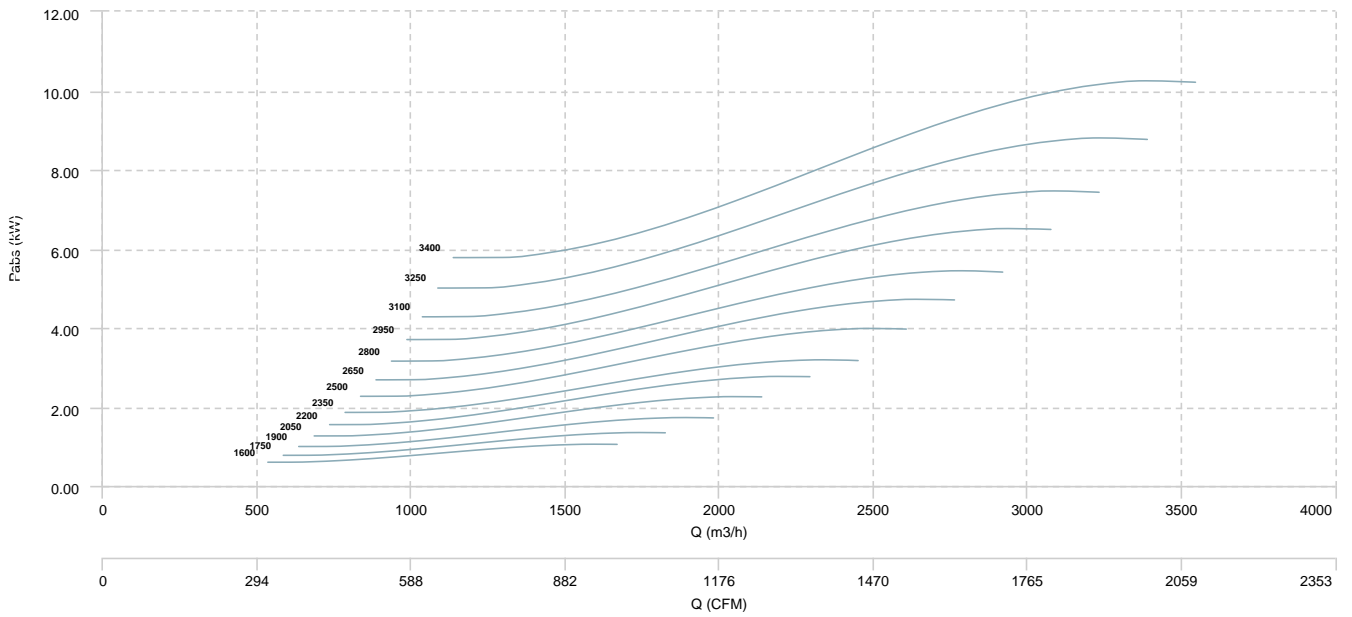


AATVG/N 560

AIR FLOW - PRESSURE

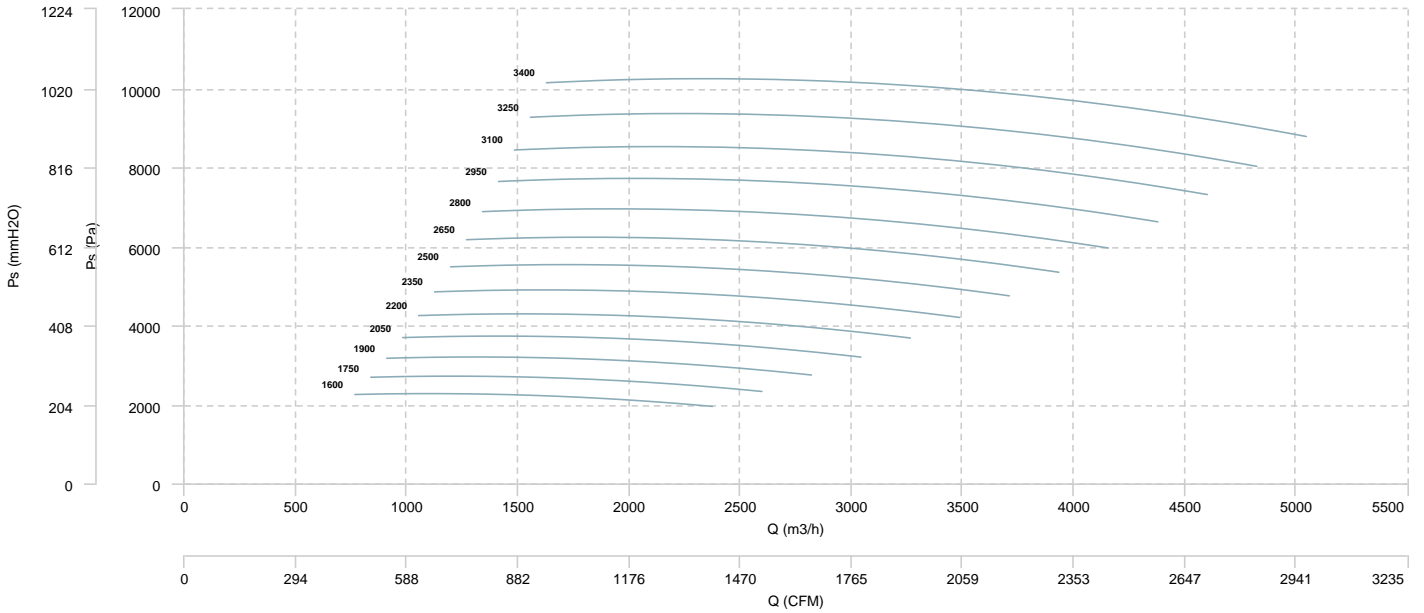


AIR FLOW - MECHANICAL POWER

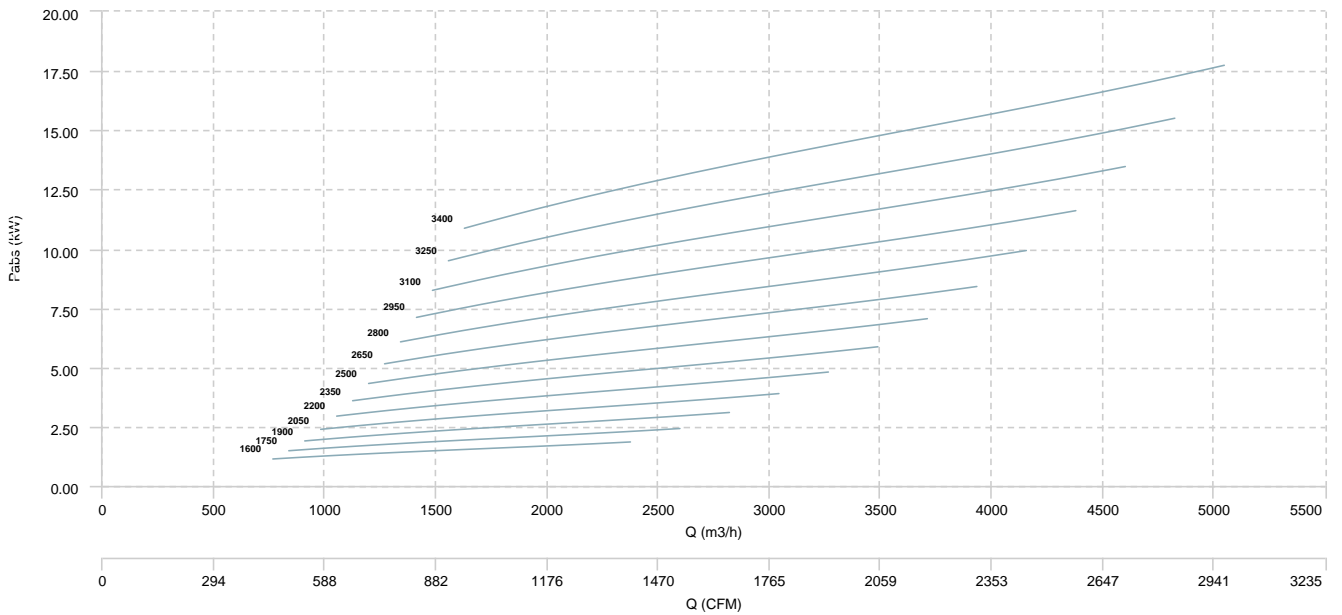


AATVG/N 630

AIR FLOW - PRESSURE

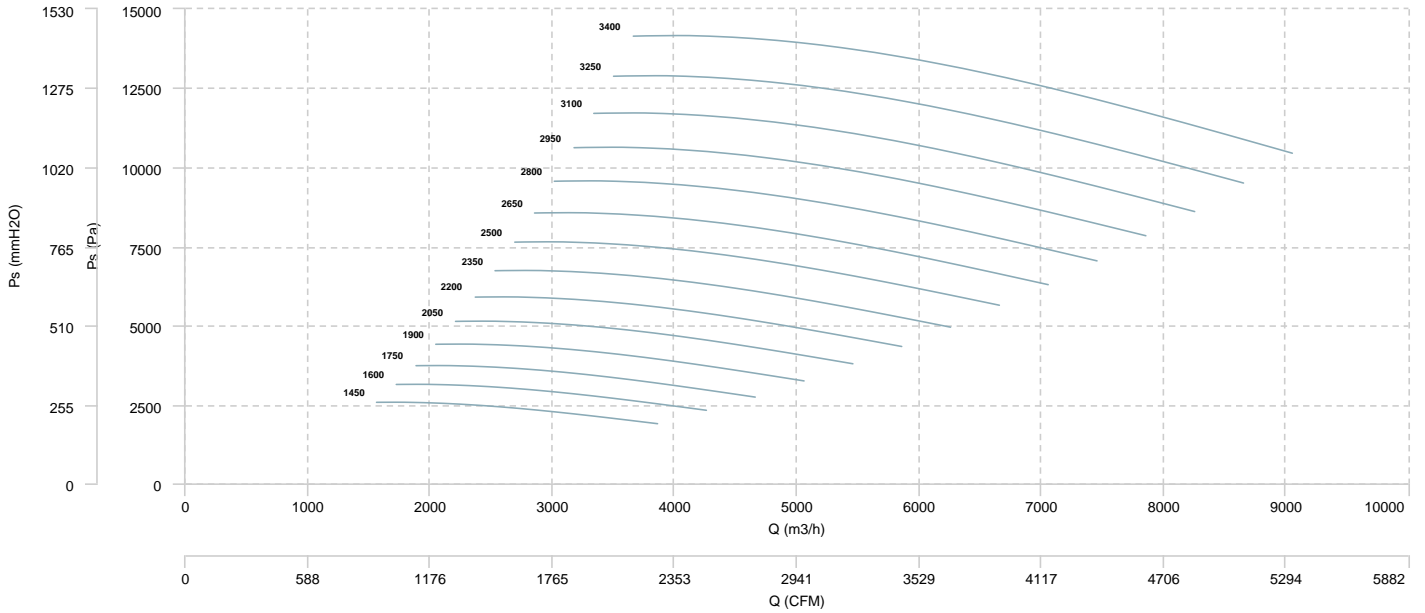


AIR FLOW - MECHANICAL POWER

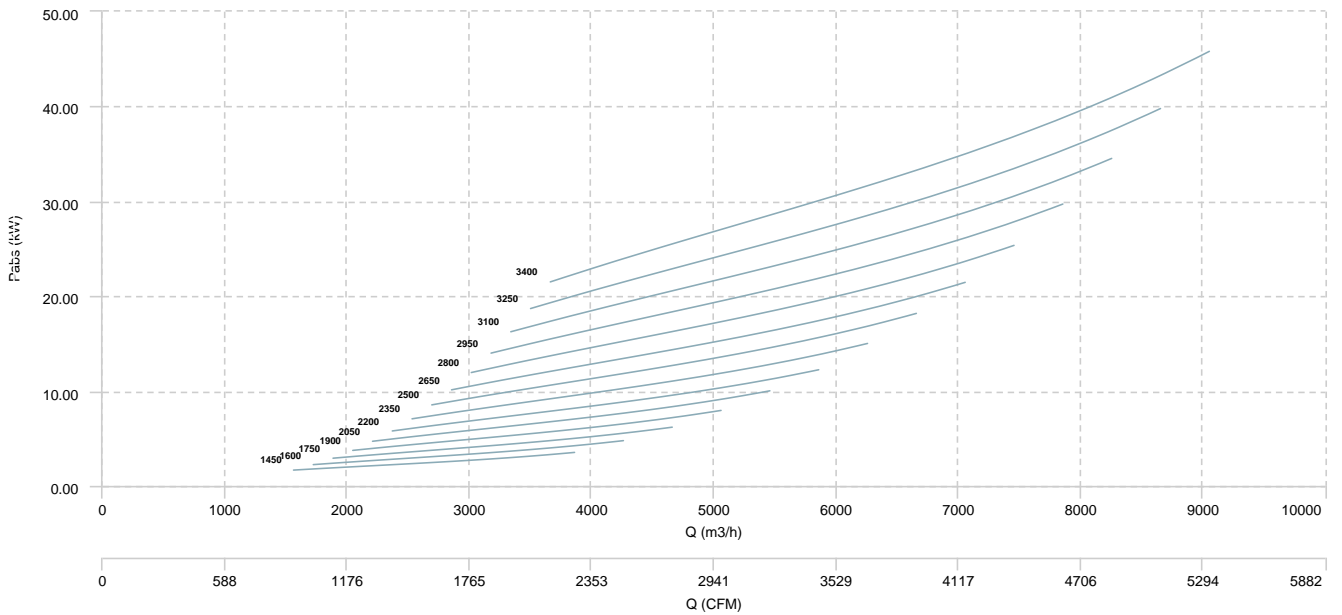


AATVG/N 710

AIR FLOW - PRESSURE

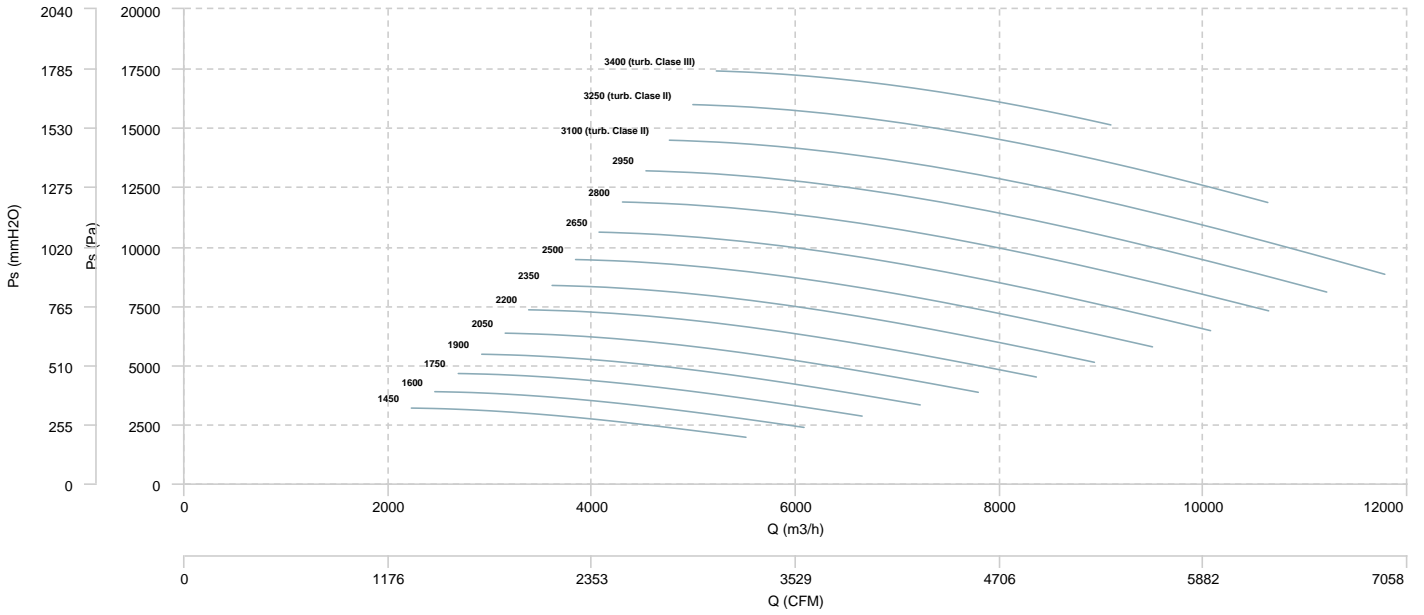


AIR FLOW - MECHANICAL POWER

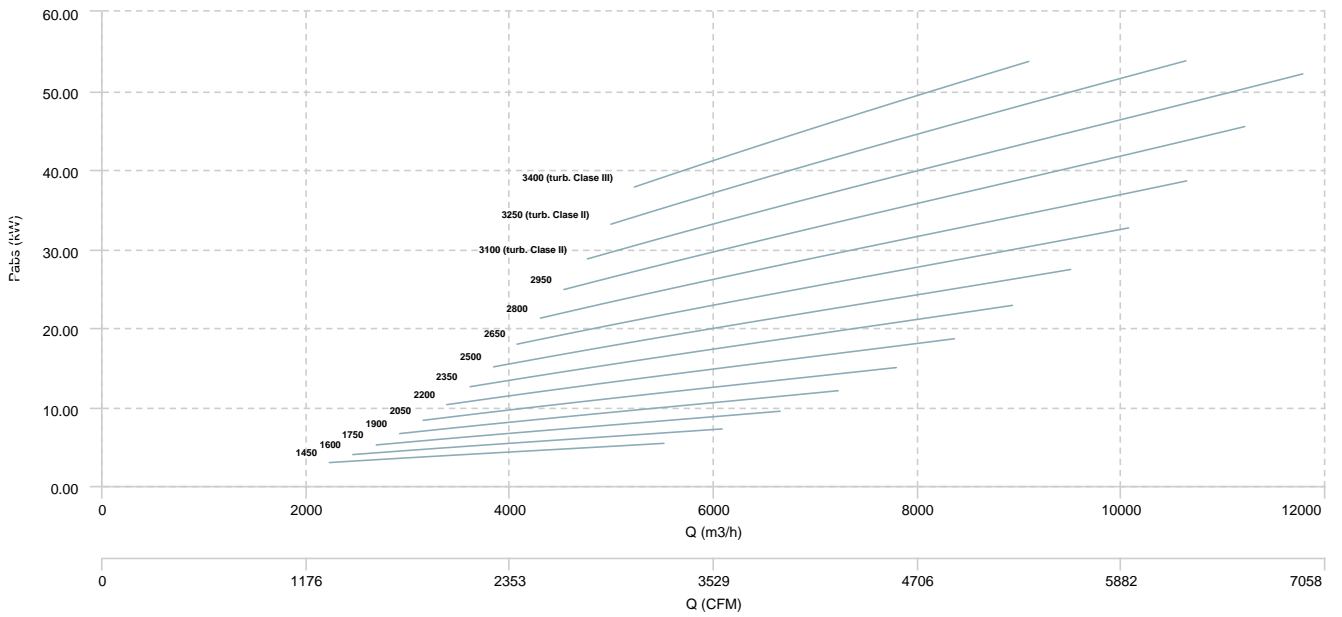


AATVG/N 800

AIR FLOW - PRESSURE

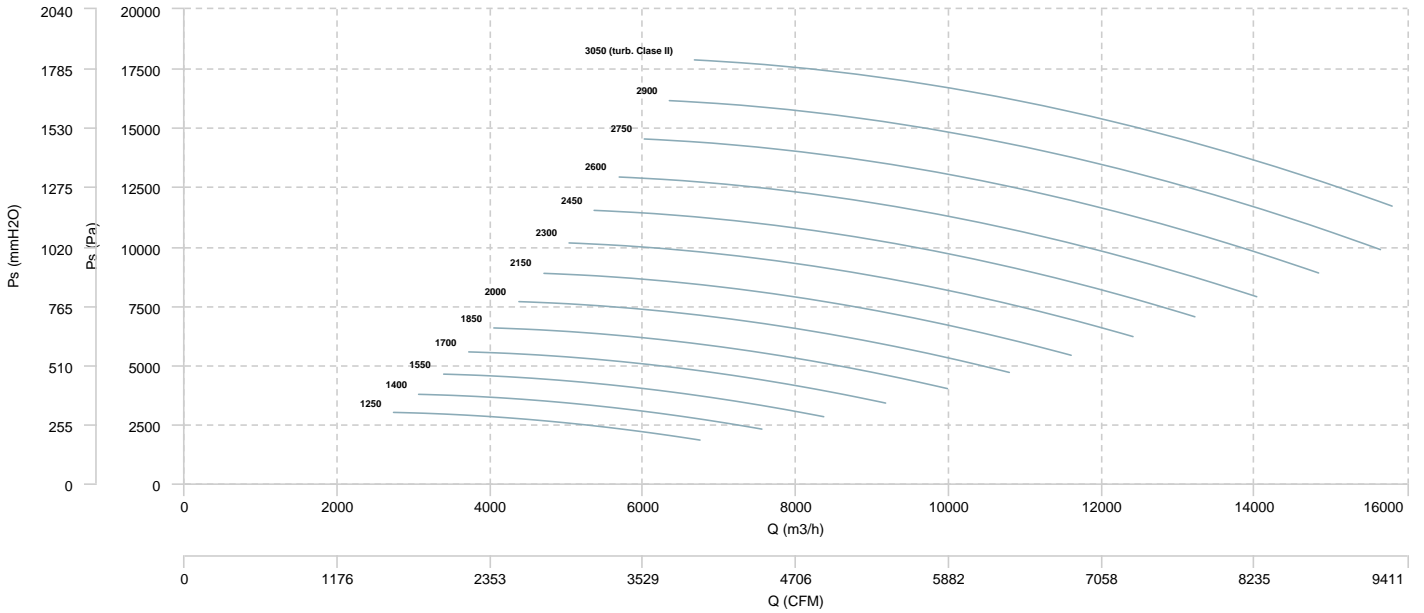


AIR FLOW - MECHANICAL POWER

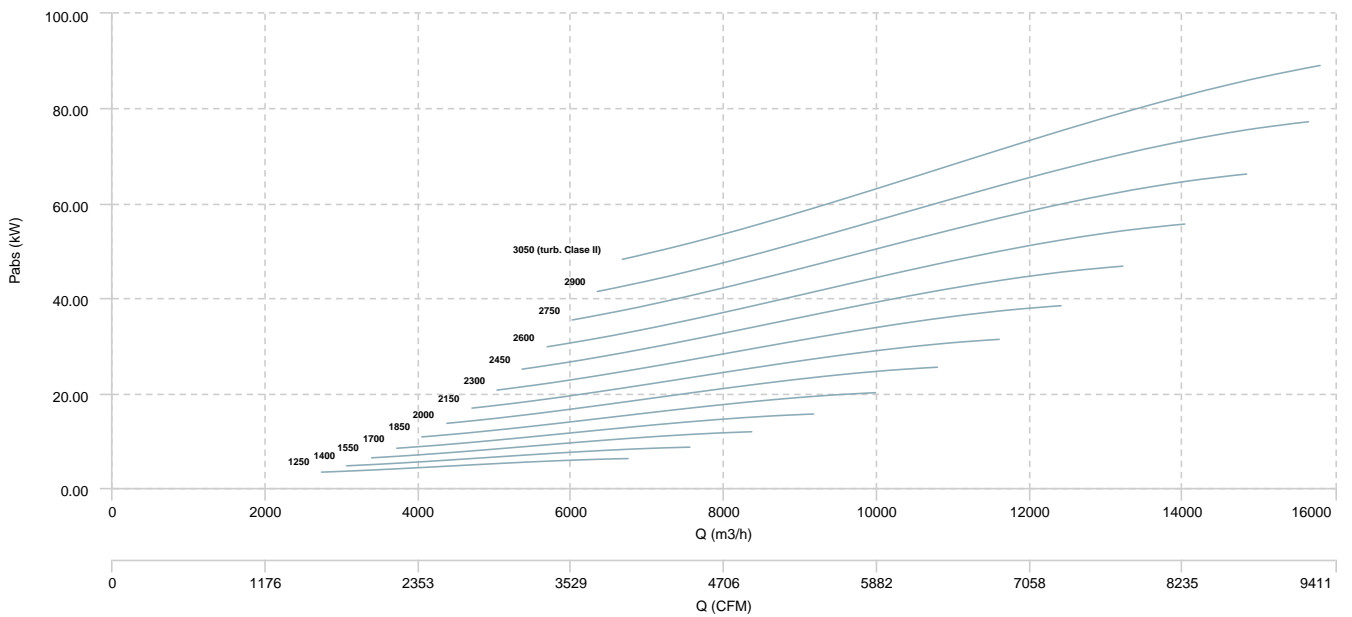


AATVG/N 900

AIR FLOW - PRESSURE

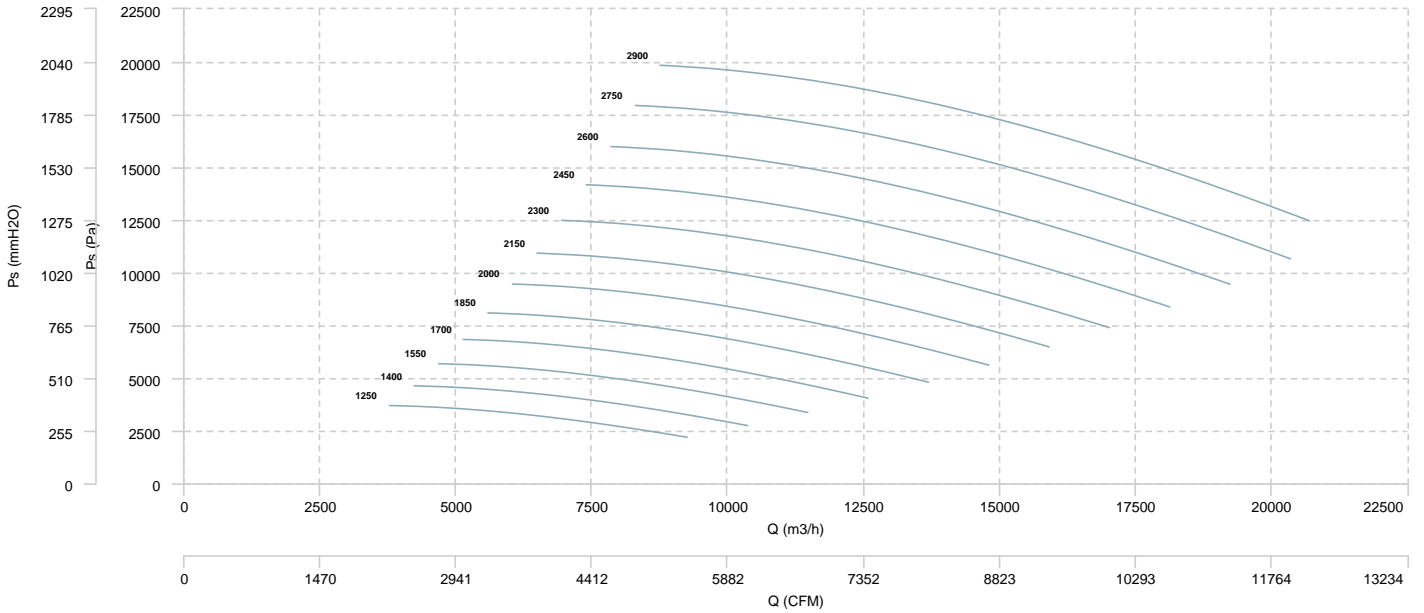


AIR FLOW - MECHANICAL POWER

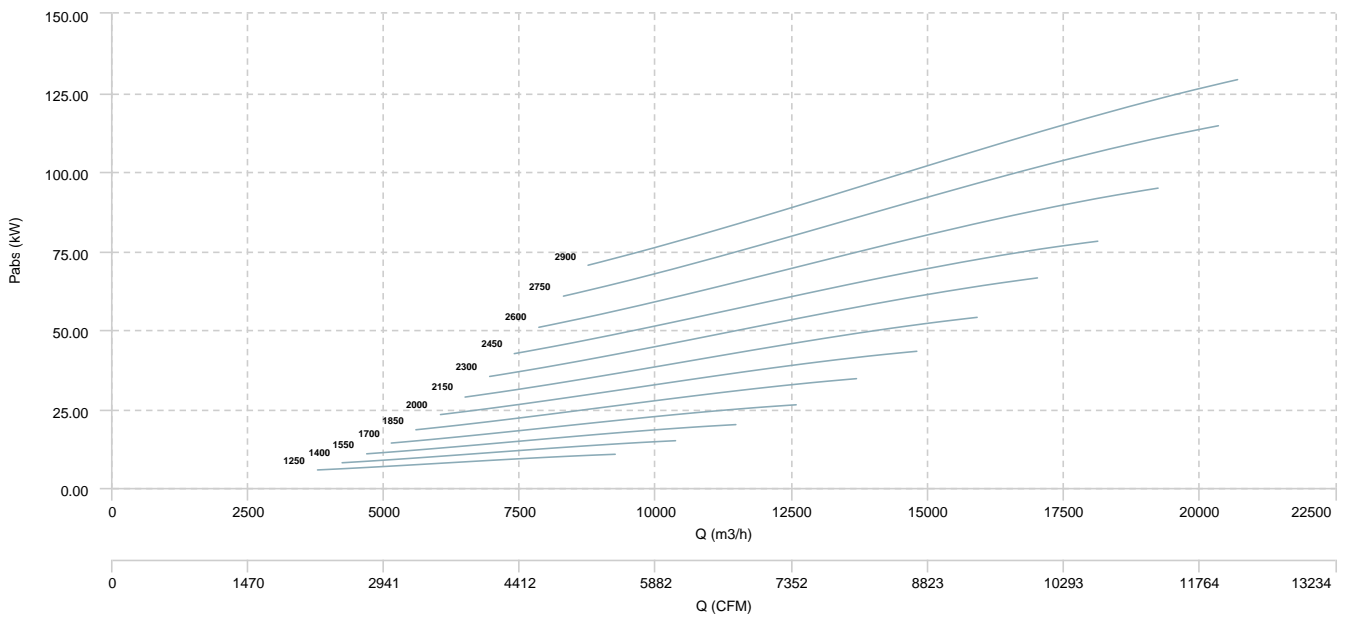


AATVG/N 1000

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

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