

AATVP



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 400 to 630. Models sizes from 710 to 1120 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: 130°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.

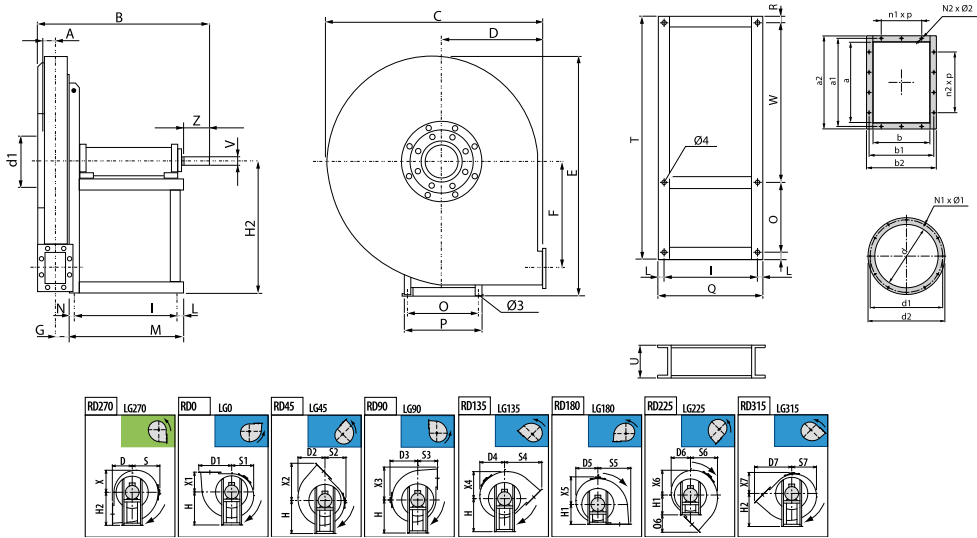
Technical data

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
5069040__R__	AATVP 400	1800	-	1,50	690	36	40	1
5069045__R__	AATVP 450	1800	-	3	1.000	40	65	1
5069050__R__	AATVP 500	1800	-	7,50	1.370	41	80	1
5069056__R__	AATVP 560	1600	-	7,50	1.850	42	100	1
5069063__R__	AATVP 630	1600	-	11	2.740	45	133	1
5069071__R__	AATVP 710	1450	-	22	3.920	45	183	1
5069080__R__	AATVP 800	1450	-	30	5.380	48	218	1
5069090__R__	AATVP 900	1250	-	55	7.600	48	320	1
5069100__R__	AATVP 1000	1250	-	75	9.710	50	457	1
5069112__R__	AATVP 1120	1150	-	90	12.080	51	481	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
AATVP 400	45	522	620	280	350	314	340	302	283
AATVP 450	50	531	675	300	387	350	375	335	314
AATVP 500	57	687	745	335	430	386	410	370	346
AATVP 560	65	703	835	375	487	438	460	418	390
AATVP 630	73	735	940	425	545	493	515	472	440

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

Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	Q
AATVP 400	23	347	40	8x8	4x10	288	165	324	330
AATVP 450	23	347	40	8x8	4x10	288	186	324	330
AATVP 500	28	485	50	8x8	6x10	355	206	400	463
AATVP 560	28	485	50	8x8	6x12	355	235	400	463
AATVP 630	28	485	50	8x8	6x12	355	263	400	463

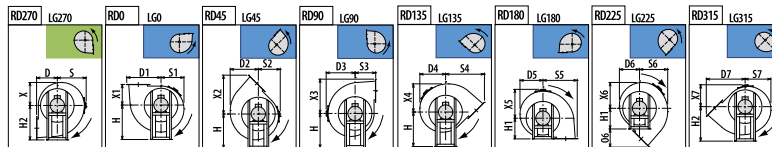
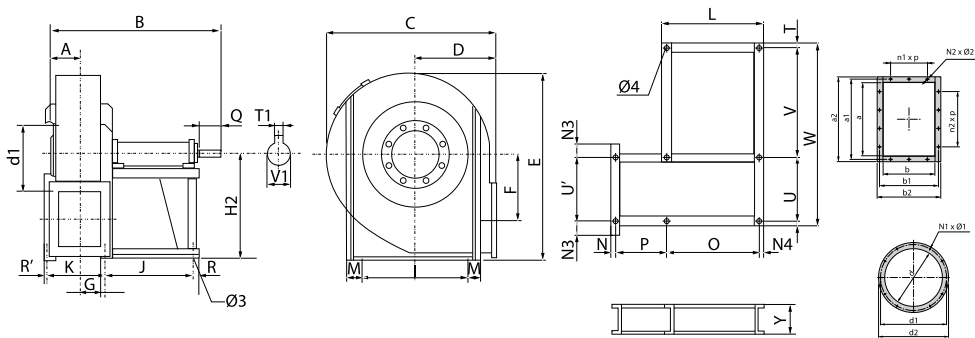
Model	R	S	S1	S2	S3	S4	S5	S6	S7
AATVP 400	18	340	283	293	280	445	350	314	302
AATVP 450	18	375	314	319	300	486	387	350	335
AATVP 500	23	410	346	350	335	541	430	386	370

Model	R	S	S1	S2	S3	S4	S5	S6	S7
AATVP 560	23	460	390	392	375	610	487	438	418
AATVP 630	23	515	440	438	425	688	545	493	472

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

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

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



Model	A	B	C	D	D1	D2	D3	D4	D5
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Model	A	B	C	D	D1	D2	D3	D4	D5
AATVP 710	83	855	1045	475	606	547	570	522	493
AATVP 800	90	870	1170	530	678	622	640	592	555
AATVP 900	103	885	1315	600	759	696	715	668	628
AATVP 1000	110	1043	1460	670	845	775	790	735	690
AATVP 1120	115	1066	1630	750	950	898	880	857	770

Model	D6	D7	E	F	G	H	H1	H2	I
AATVP 710	489	764	1123	478	128	630	630	550	485
AATVP 800	545	854	1265	539	147	710	710	620	485
AATVP 900	617	961	1428	608	158	800	800	695	485
AATVP 1000	670	1074	1590	681	188,5	900	900	770	762
AATVP 1120	713	1202	1770	766	194,5	1000	1000	860	862

Model	J	K	L	M	N	N1xØ1	N2xØ2	N3	N4
AATVP 710	477	216	543	23	20	6x12	6x12	75	33
AATVP 800	477	234	543	23	30	8x12	8x12	65	33
AATVP 900	477	256	543	23	30	8x12	8x12	78	33
AATVP 1000	551	305	629	32	36	10x12	10x12	150	39
AATVP 1120	551	317	629	32	36	10x12	10x12	148	39

Model	O	O6	P	Q	R	R'	S	S1	S2
AATVP 710	477	289	216	110	33	20	570	493	489
AATVP 800	477	324	234	110	33	30	640	555	545
AATVP 900	477	361	256	110	33	30	715	628	617
AATVP 1000	551	174	305	110	39	36	790	690	670
AATVP 1120	551	452	317	110	39	36	880	770	713

Model	S3	S4	S5	S6	S7	T	T1	U	U'
AATVP 710	475	764	606	547	522	23	12	485	400
AATVP 800	530	854	678	622	592	23	12	485	485
AATVP 900	600	961	759	696	668	23	14	485	500
AATVP 1000	670	1074	845	775	735	32	14	762	526
AATVP 1120	750	1202	950	898	857	32	16	862	630

Model	V	V1	X	X1	X2	X3	X4	X5	X6
AATVP 710	720	42	493	475	764	606	547	570	522
AATVP 800	970	42	555	530	854	678	622	640	592
AATVP 900	970	48	628	600	961	759	696	715	668
AATVP 1000	974	48	690	670	1074	845	775	790	735
AATVP 1120	974	55	770	750	1202	950	898	880	857

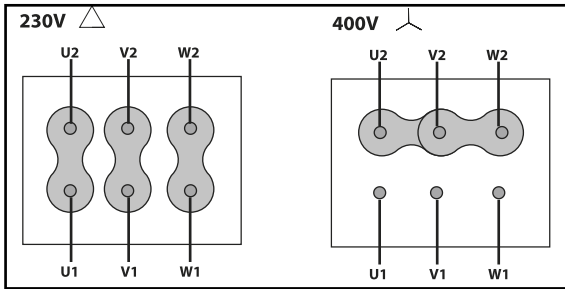
Model	X7	Y	a	a1	a2	b	b1	b2	d
AATVP 710	489	160	185	219	255	131	165	201	255
AATVP 800	545	160	207	241	277	148	182	218	285
AATVP 900	617	160	231	265	301	166	200	236	320
AATVP 1000	670	180	258	292	328	185	219	255	360
AATVP 1120	713	180	288	332	368	205	249	285	405

Model	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVP 710	292	325	-	1x112	19	19
AATVP 800	332	365	1x112	1x112	19	19
AATVP 900	366	400	1x112	1x112	19	19
AATVP 1000	405	440	1x112	2x112	24	20
AATVP 1120	448	485	1x125	2x125	24	20

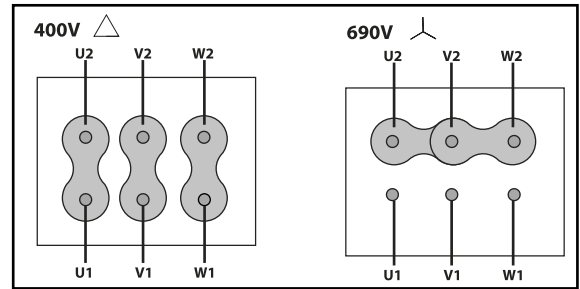
Wiring diagram

DIAGRAM Nº 1

230/400V



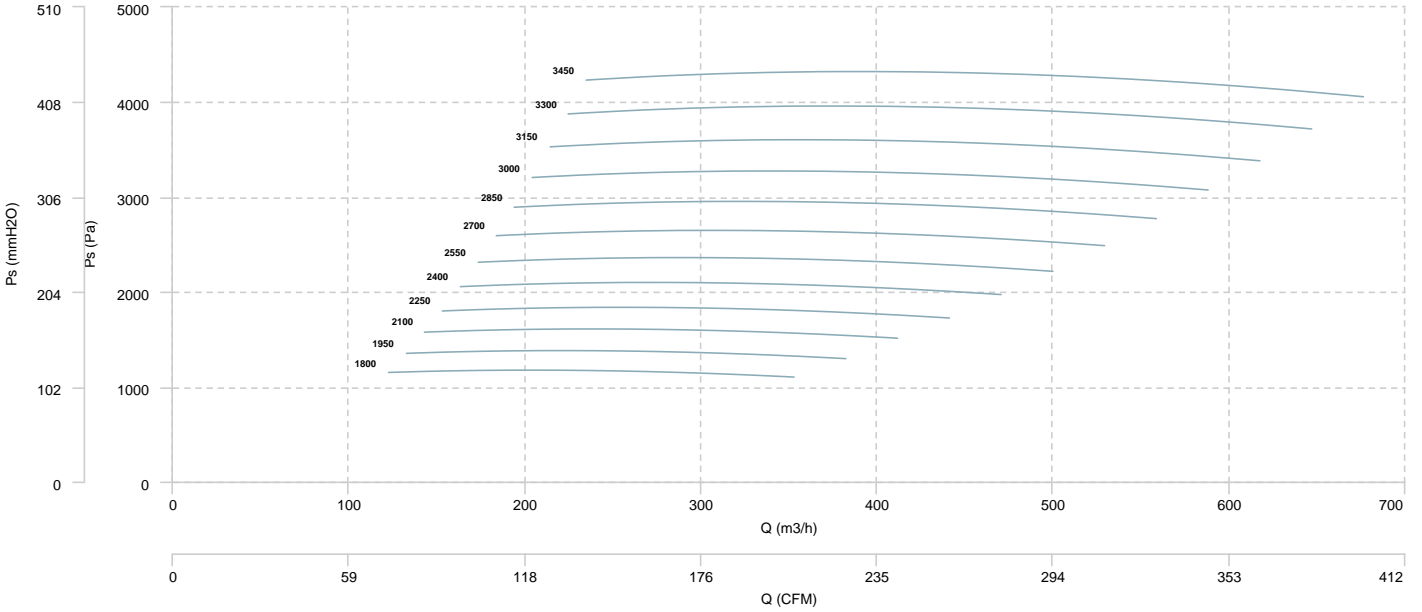
400/690V



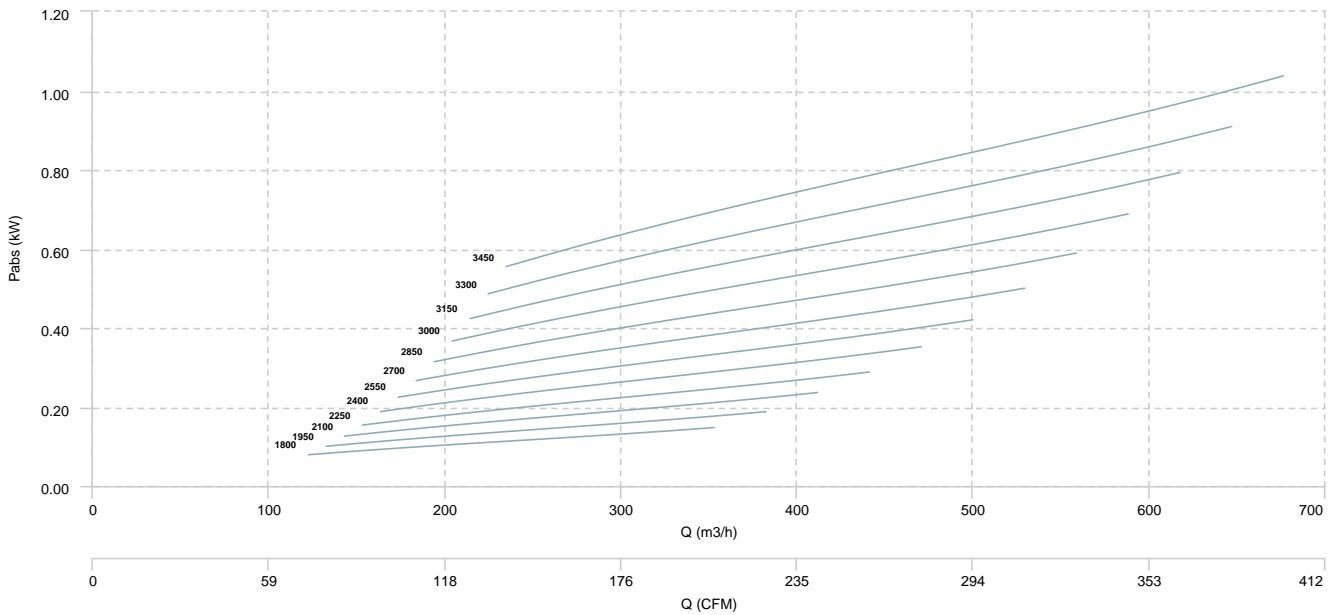
CHARACTERISTIC CURVE

AATVP 400

AIR FLOW - PRESSURE

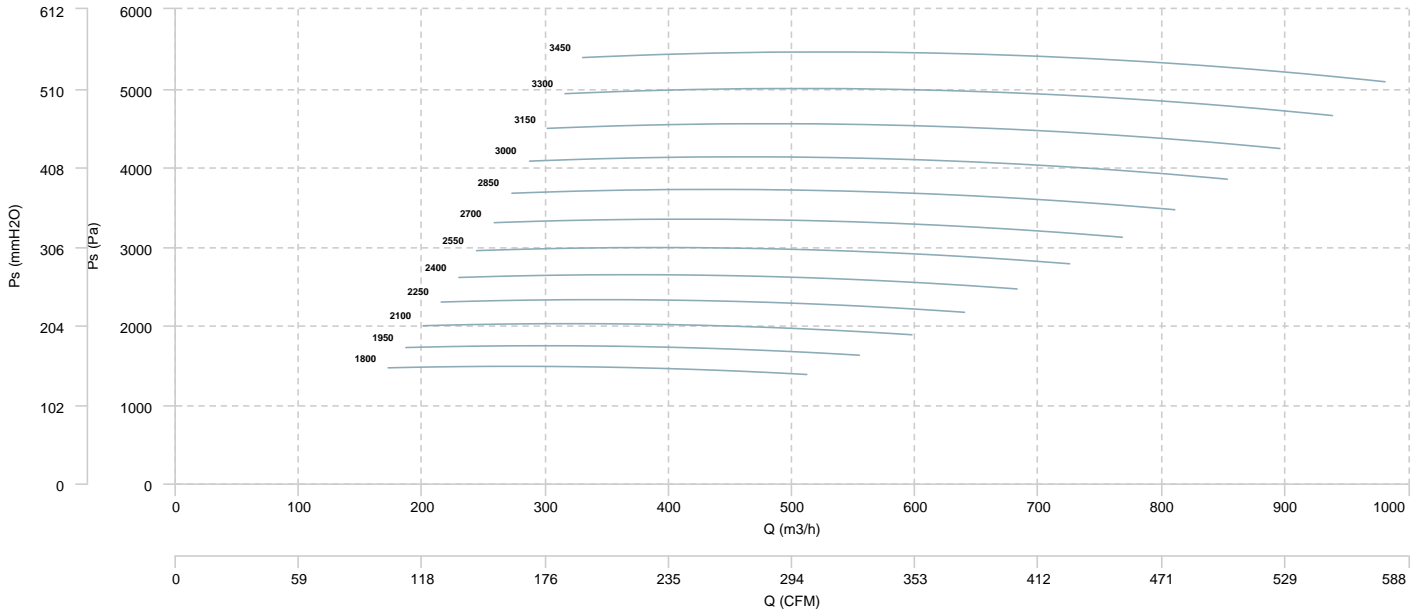


AIR FLOW - MECHANICAL POWER

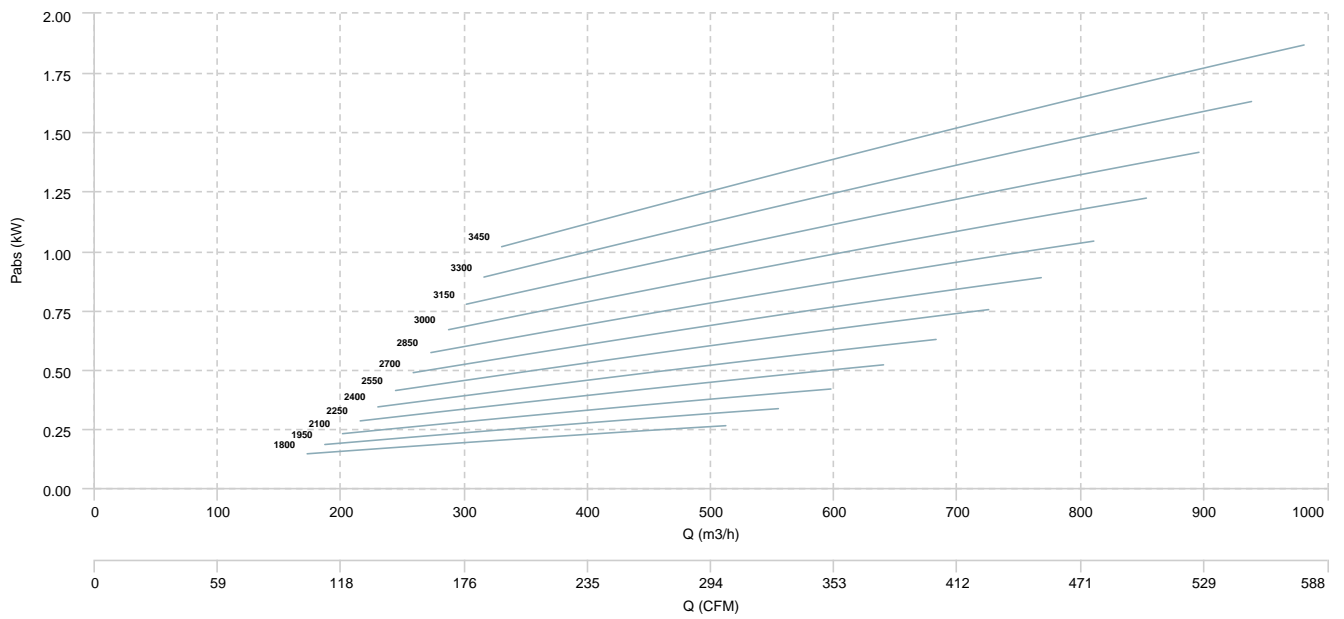


AATVP 450

AIR FLOW - PRESSURE

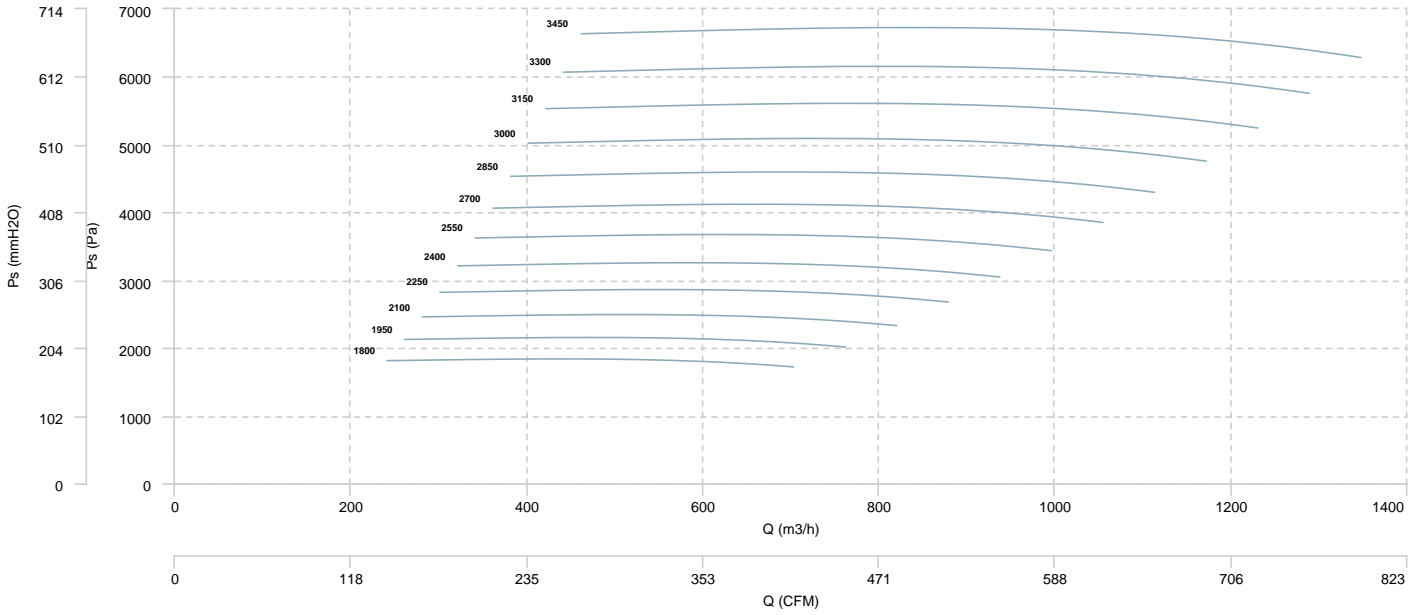


AIR FLOW - MECHANICAL POWER

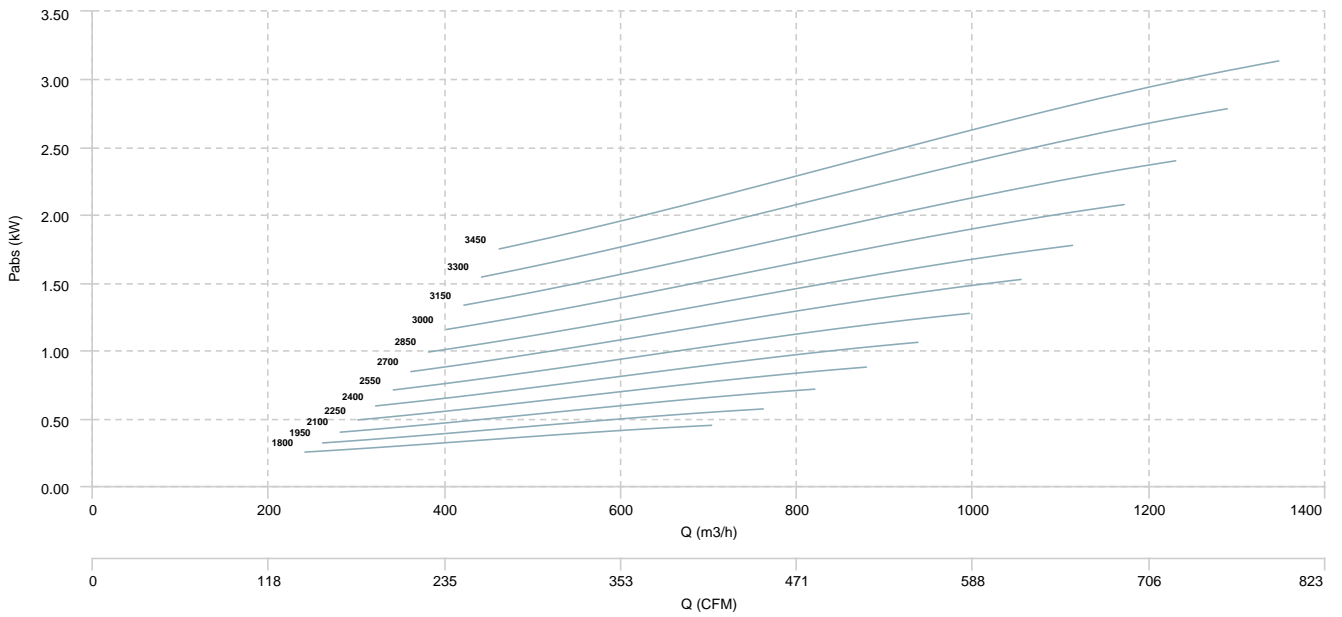


AATVP 500

AIR FLOW - PRESSURE

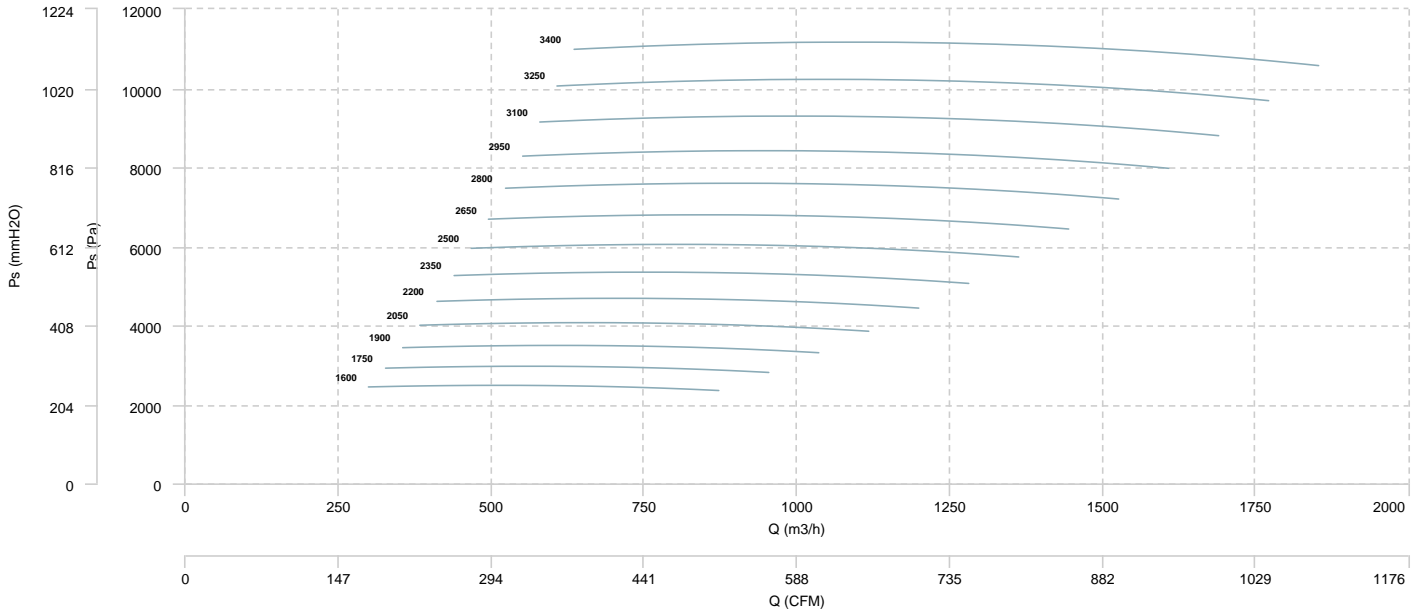


AIR FLOW - MECHANICAL POWER

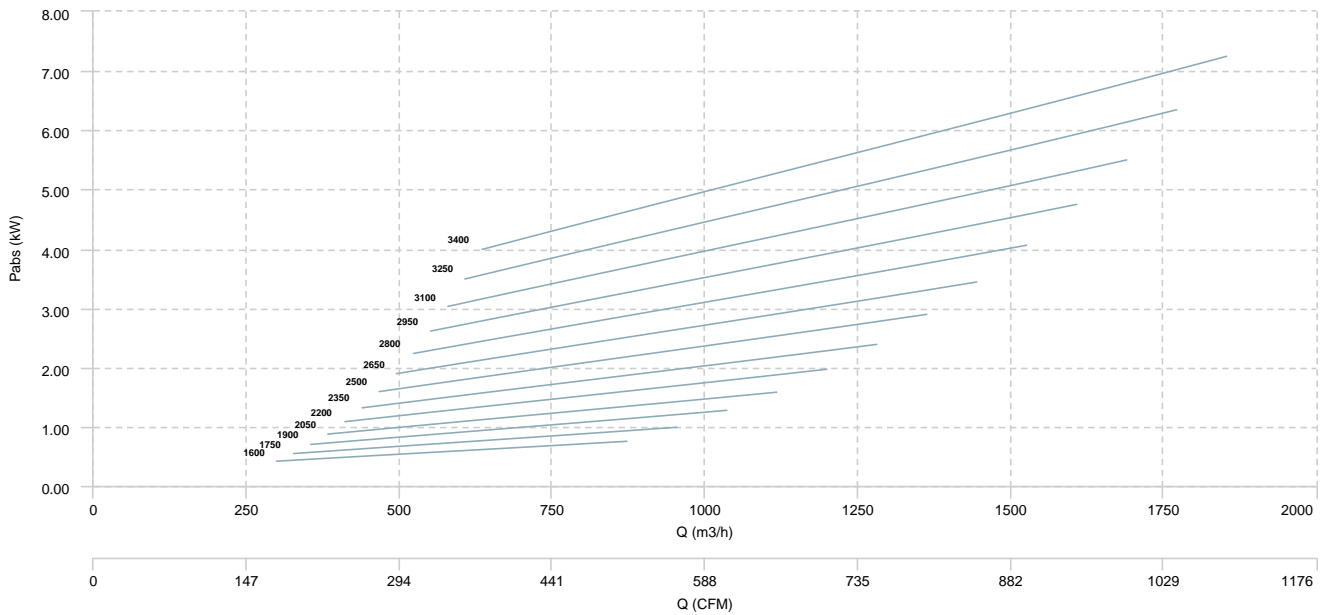


AATVP 560

AIR FLOW - PRESSURE

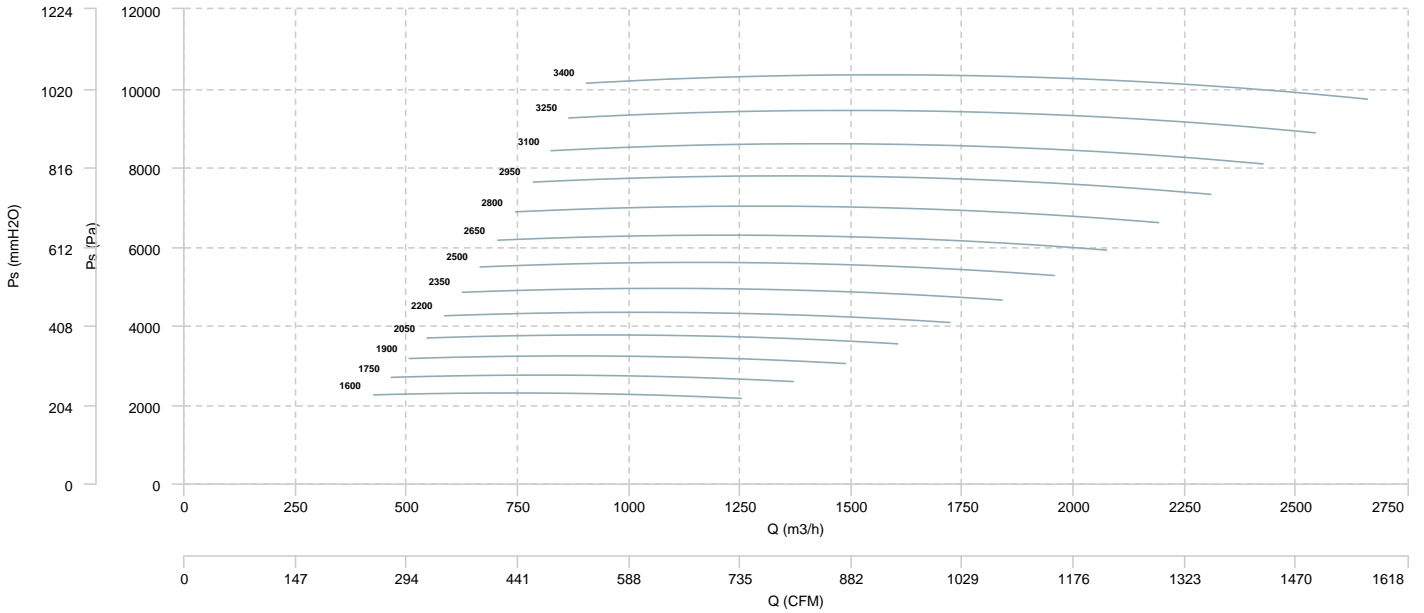


AIR FLOW - MECHANICAL POWER

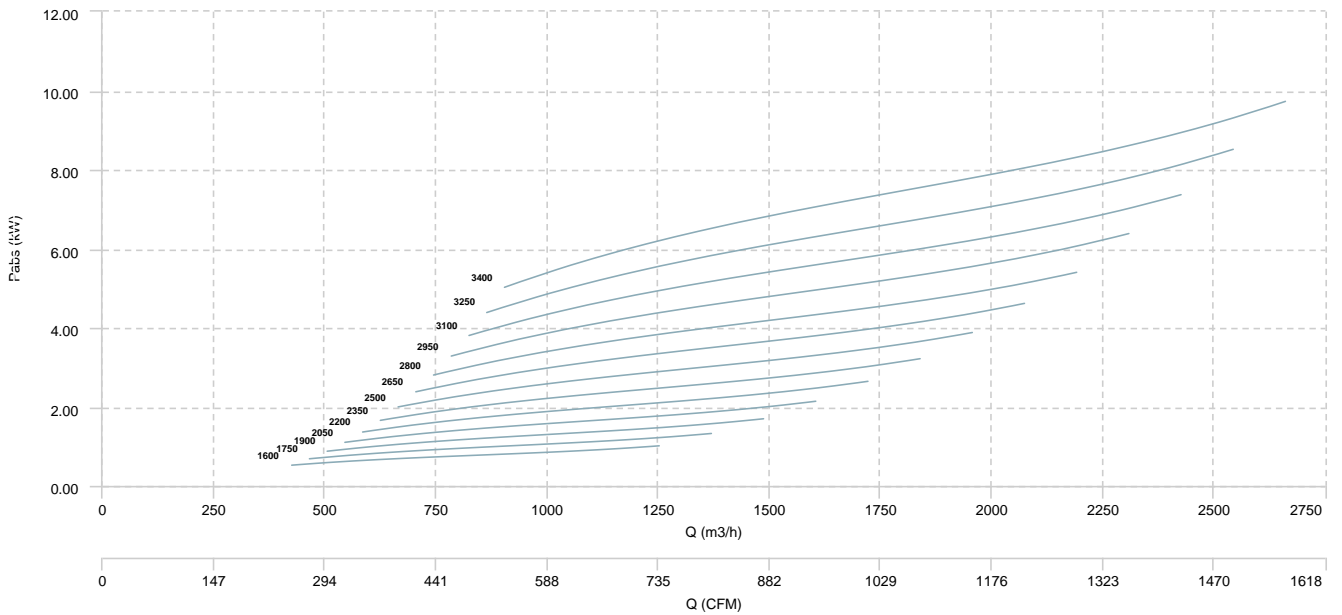


AATVP 630

AIR FLOW - PRESSURE

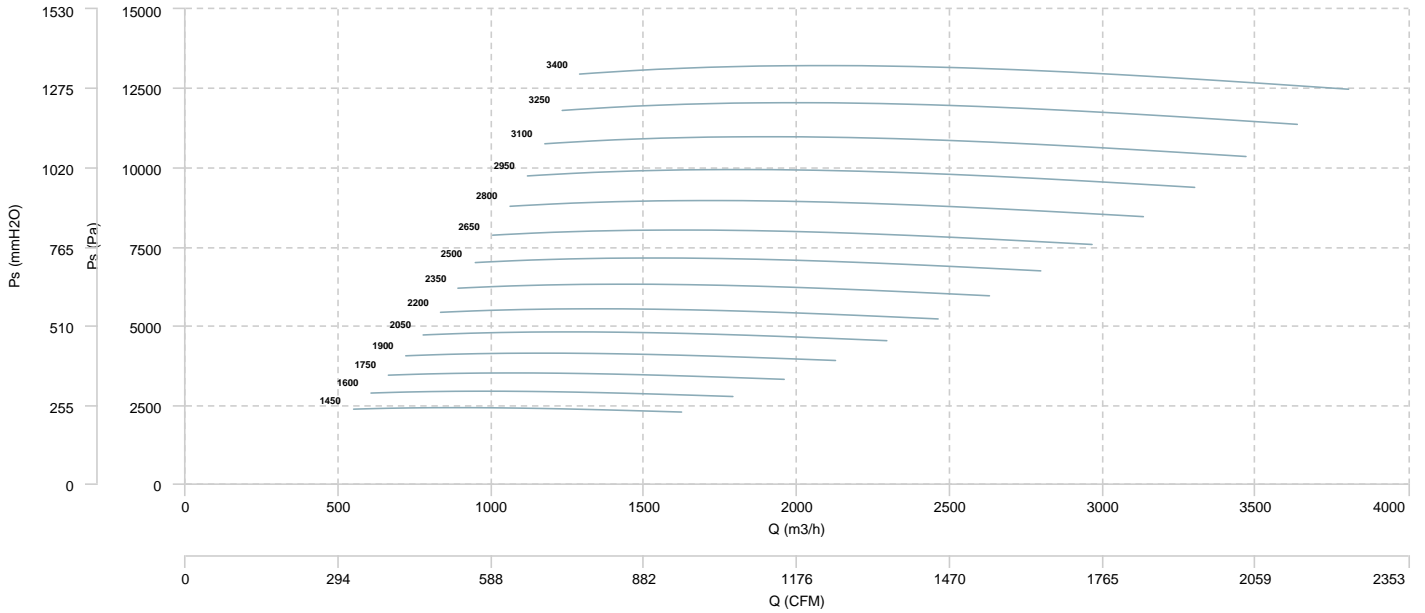


AIR FLOW - MECHANICAL POWER

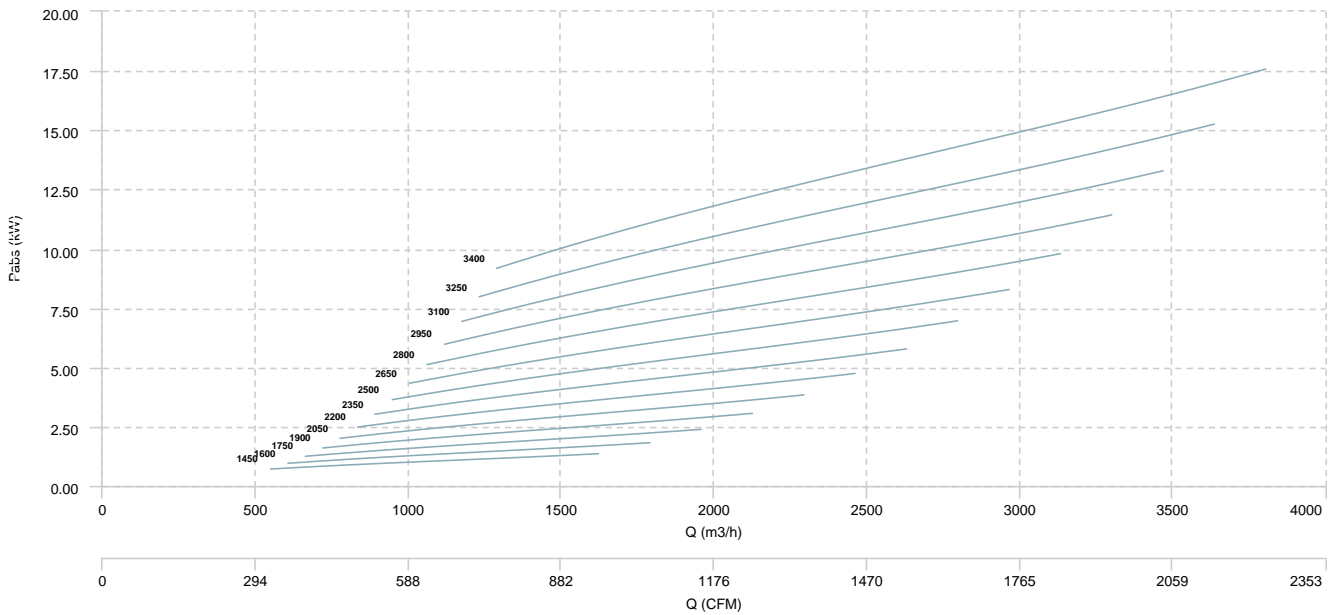


AATVP 710

AIR FLOW - PRESSURE

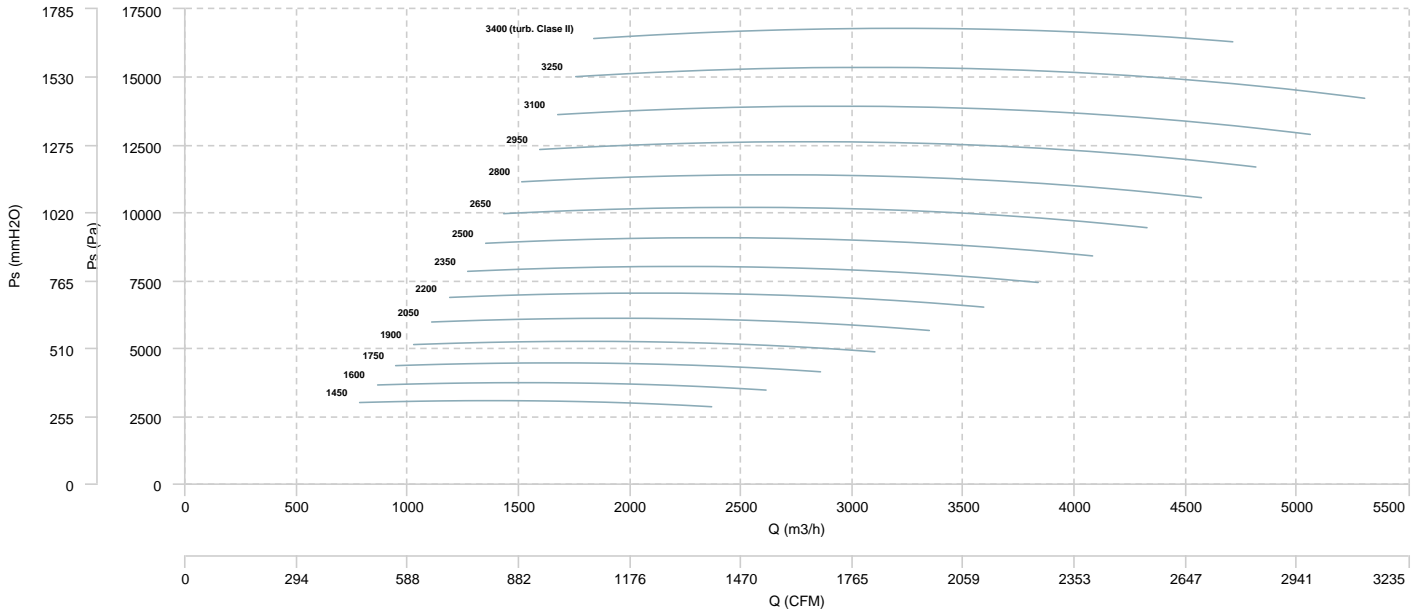


AIR FLOW - MECHANICAL POWER

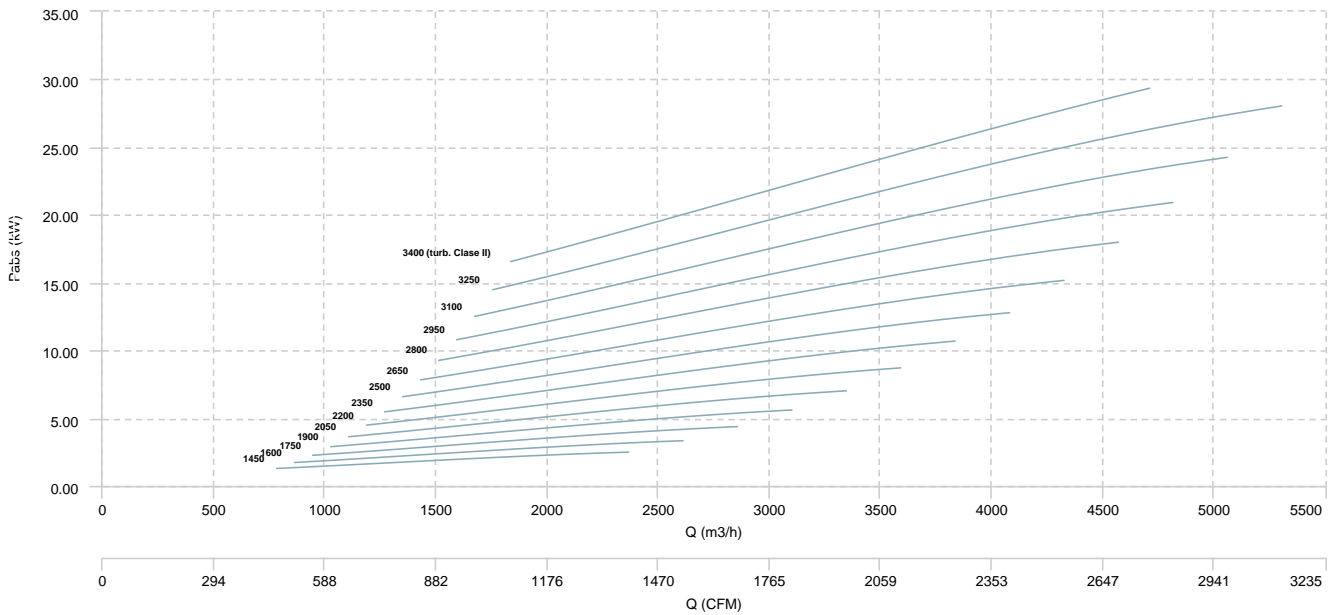


AATVP 800

AIR FLOW - PRESSURE

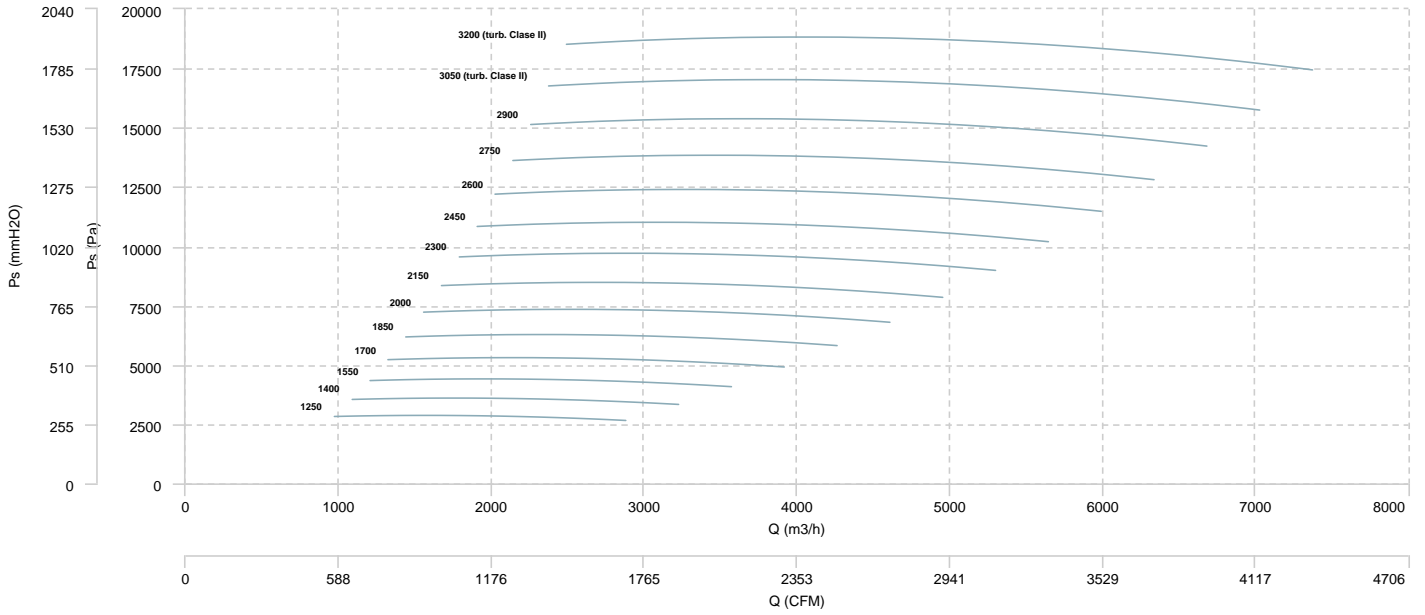


AIR FLOW - MECHANICAL POWER

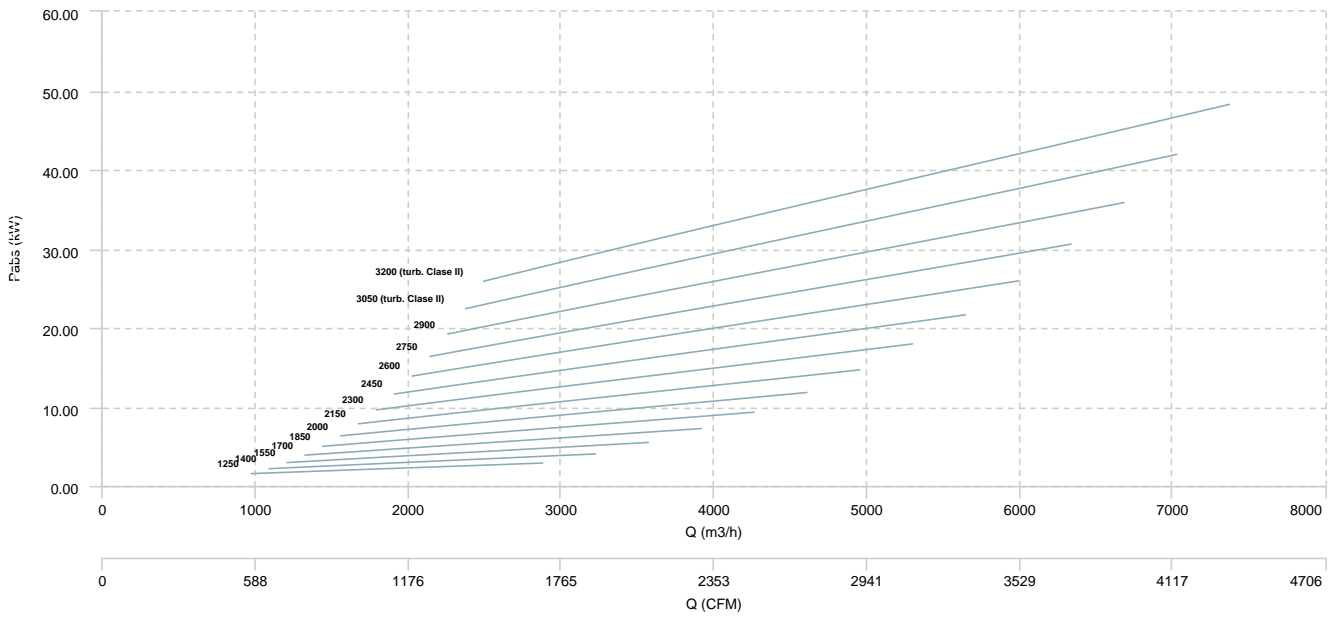


AATVP 900

AIR FLOW - PRESSURE

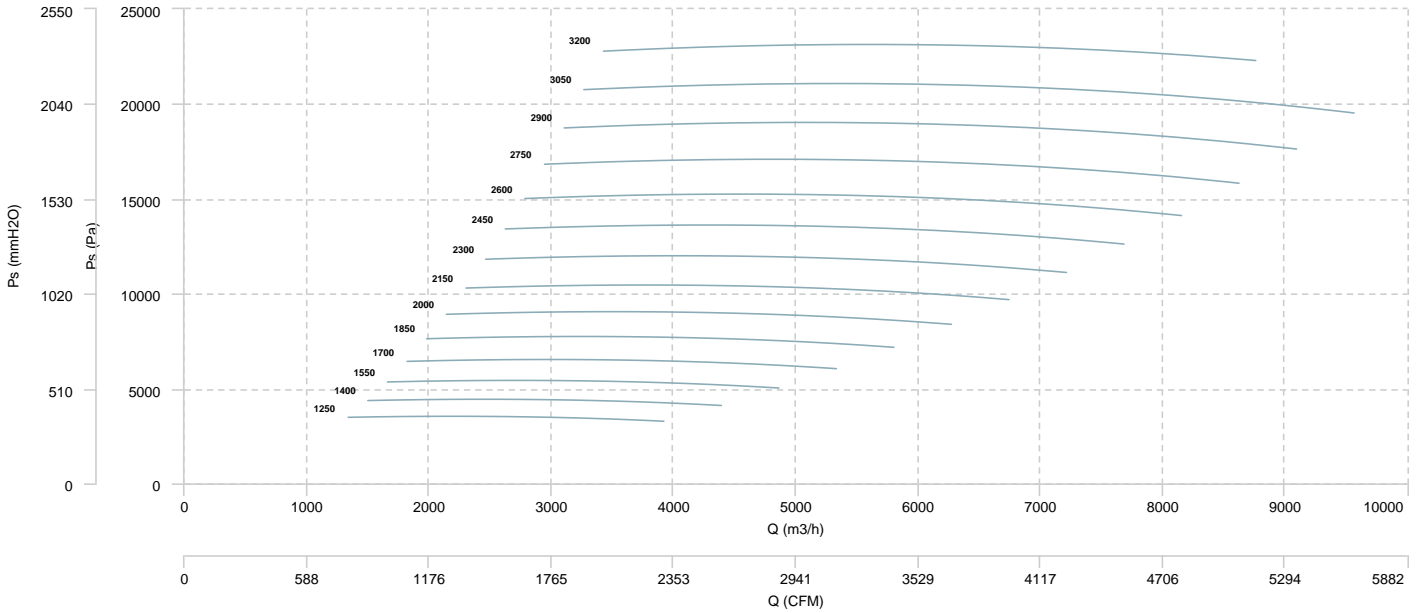


AIR FLOW - MECHANICAL POWER

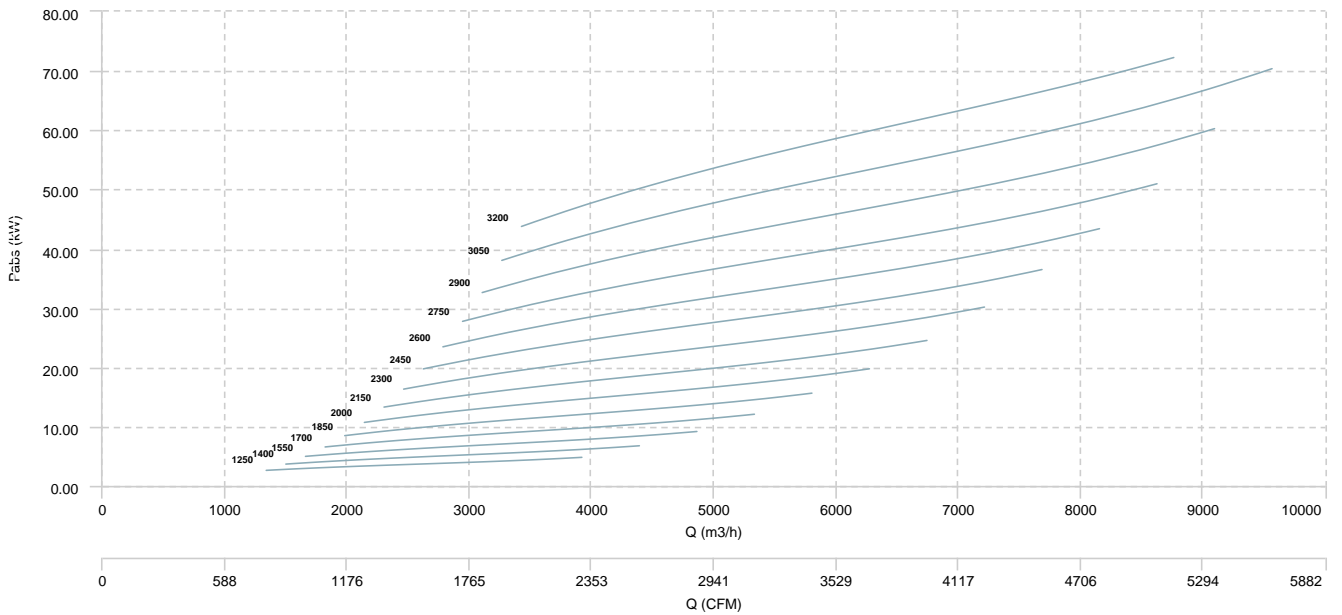


AATVP 1000

AIR FLOW - PRESSURE

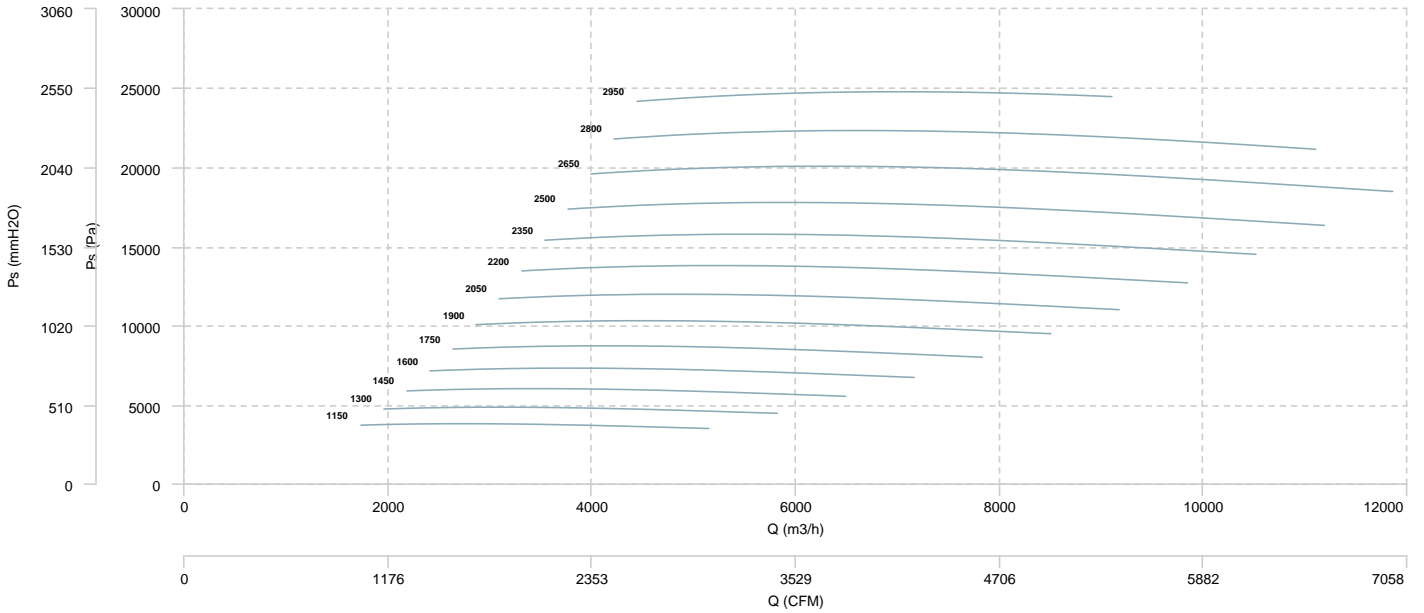


AIR FLOW - MECHANICAL POWER

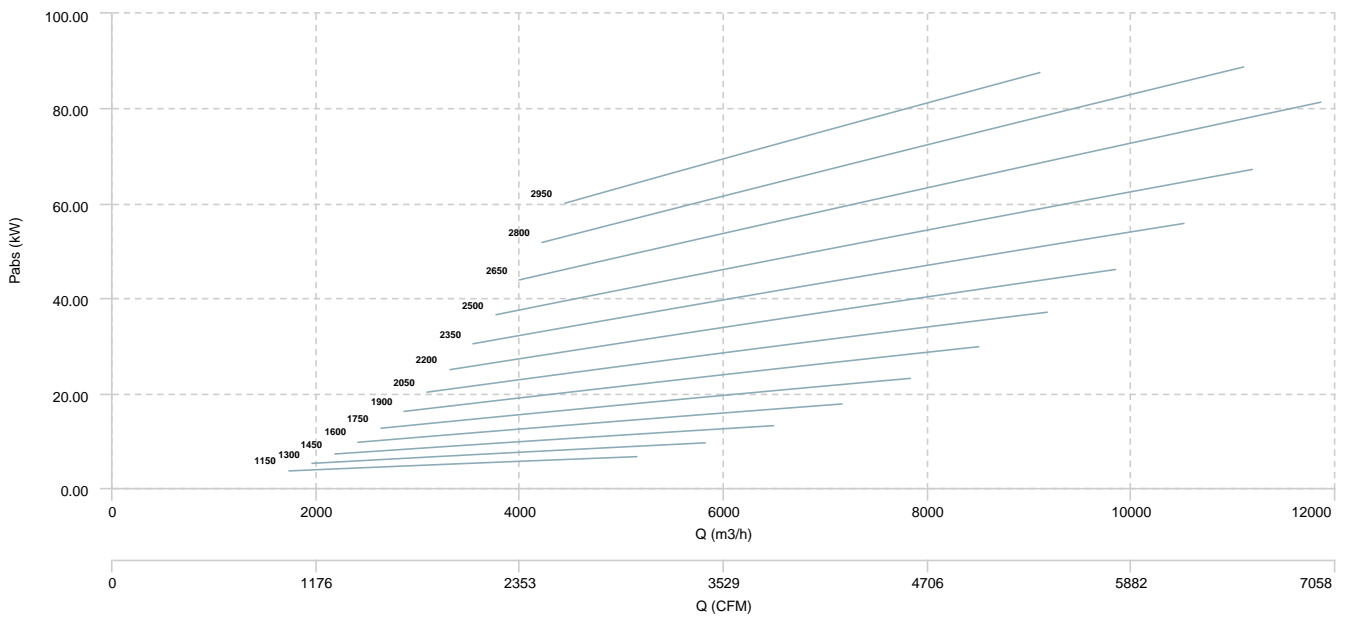


AATVP 1120

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 (1800 RPM)	Inlet	34	46	53	57	58	53	47	44	62
AATVP 450 (1800 RPM)	Inlet	38	50	56	61	61	57	50	47	66
AATVP 500 (1800 RPM)	Inlet	40	52	58	62	63	59	52	49	67
AATVP 560 (1600 RPM)	Inlet	40	52	58	62	63	59	52	49	68
AATVP 630 (1600 RPM)	Inlet	43	55	61	65	66	62	55	52	71
AATVP 710 (1450 RPM)	Inlet	44	56	62	66	67	63	56	53	71
AATVP 800 (1450 RPM)	Inlet	47	59	65	69	70	65	59	56	74
AATVP 900 (1250 RPM)	Inlet	46	58	65	69	70	65	58	55	74
AATVP 1000 (1250 RPM)	Inlet	49	61	67	71	72	67	61	58	76
AATVP 1120 (1150 RPM)	Inlet	50	62	68	72	73	68	62	59	77

Notes:

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

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