AATVC

Accessories


AB


AC


AVR


AVS


BA-400


BAD


EI


FS


INT


JE 45


RA


RI


SFC

HIGH PRESSURE WITH BACKWARD IMPELLER AND BELT TRASMISSION

MANUFACTURING FEATURES:

• Fan made of Fe360 sheet. The fan paint finish is based on a Qualicoat polyester powder coating stoved at 200ºC, with an average film thickness of 70 microns. Average heat resistence of coating is 180ºC with peaks of 200ºC.
• Fully welded housing.
• 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 300ºC.
• Motorized fan with base frame (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 500 to 630. Models sizes from 710 to 1250 size the orientation is fixed.

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.
• Clean air transport.
• Maximum working temperature: carried air: 130ºC, ambient: 60ºC.

UNDER REQUEST

· Fans for 60Hz and special voltages.
· 2 speed motor.
· Fan with free shaft (configuration 1) or with motor supported on the pedestal side (configuration 9).
· C4 or C5 coating painting
· Hot dip galvanized
· Special steel (Cor-Ten A, Hardox...)
· Inox 304 (normal or electropolished finish)
· Inox 316 (normal or electropolished finish)
· Cooling wheel
· Anticaloric paint
· Reinforced housing
· Fully welded housing (waterproof)
· Insulated housing
· Split casing (for big sizes)
· Inspection door to facilitate maintenance and cleaning
· Drain plug.
· Airtight axle
· Frontal foot
· Double suction flange
· Non-sparking air passage and standard motor.
· Other brands of motors.
· Orientation: RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315, LG0, LG45, LG90, LG135, LG180. LG225, LG315.

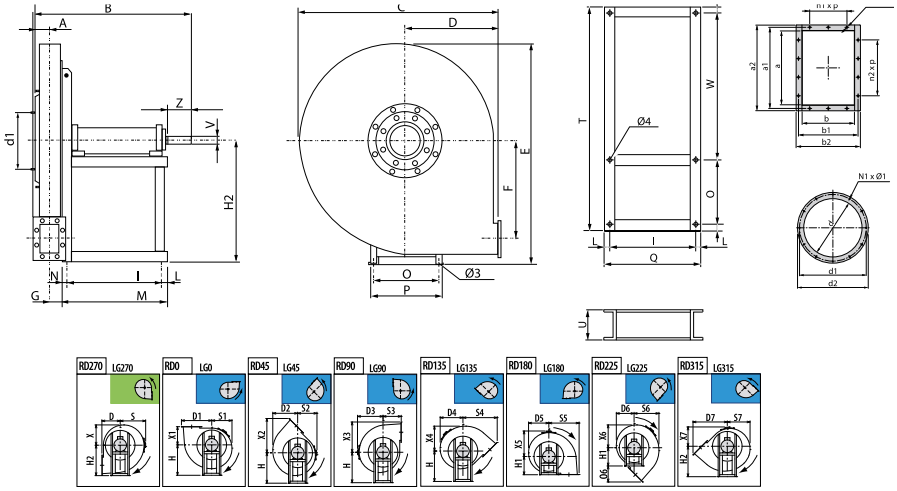
Technical data

Three-phase motor

Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight*	Connect. diagram
5066050__R___	AATVC 500	1800 - 3500	0,37	5,50	980	58	63	1
5066056__R___	AATVC 560	1600 - 3500	0,37	5,50	1.400	61	79	1
5066063__R___	AATVC 630	1700 - 3500	0,55	11	1.850	64	131	1
5066071__R___	AATVC 710	1400 - 3500	1,10	15	2.490	66	181	1
5066080__R___	AATVC 800	1450 - 3500 (turb. Clase II)	1,50	22	3.460	68	199	1
5066090__R___	AATVC 900	1350 - 3200 (turb. Clase II)	5,50	37	4.680	69	310	1
5066100__R___	AATVC 1000	1250 - 3200	11	55	6.330	72	452	1
5066112__R___	AATVC 1120	1350 - 2950	15	90	8.350	73	470	1
5066125__R___	AATVC 1250	1000 - 2600	18,50	90	9.760	75	800	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
AATVC 500	45	668	745	335	386	386	410	370	346
AATVC 560	50	678	835	375	482	438	460	418	391
AATVC 630	58	708	940	425	539	493	515	472	441

Model	D6	D7	E	F	G	H	H1	H2	I
AATVC 500	350	541	796	347	42	450	450	450	407
AATVC 560	392	606	891	393	48	500	500	500	407
AATVC 630	438	681	1001	443	53	560	560	560	407

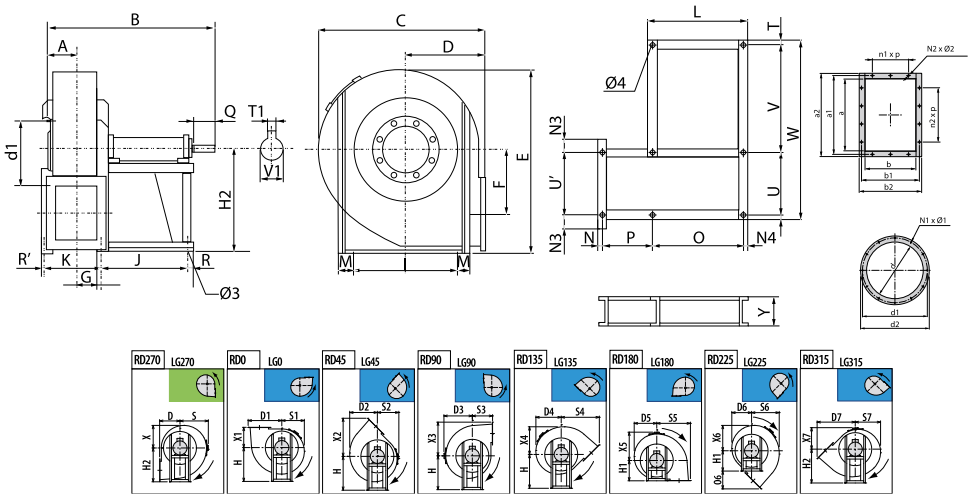
Model	L	M	N	N1xØ1	N2xØ2	O	P	Q	R
AATVC 500	28	485	50	Nº8 M6x20	4x10	355	400	463	23
AATVC 560	28	485	50	Nº8 M6x20	4x10	355	400	463	23
AATVC 630	28	485	50	Nº8 M6x20	6x10	355	400	463	23

Model	S	S1	S2	S3	S4	S5	S6	S7	T
AATVC 500	410	346	350	335	541	430	386	370	1060
AATVC 560	460	391	392	375	606	482	438	418	1180
AATVC 630	515	441	438	425	681	539	493	472	1180

Model	U	V	W	X	X1	X2	X3	X4	X5
AATVC 500	120	28	660	346	335	541	430	386	410
AATVC 560	120	28	780	391	375	606	482	438	460
AATVC 630	120	38	780	441	425	681	539	493	515

Model	X6	X7	Z	a	a1	a2	b	b1	b2
AATVC 500	370	350	60	105	139	165	76	110	136
AATVC 560	418	392	60	117	151	177	85	119	145
AATVC 630	472	438	80	131	165	191	95	129	155

Model	d	d1	d2	n2xp	Ø3	Ø4
AATVC 500	145	182	215	-	14	14
AATVC 560	165	200	235	-	14	14
AATVC 630	185	219	250	1x100	14	14



Model	A	B	C	D	D1	D2	D3	D4	D5
AATVC 710	67	825	1045	475	605	547	570	522	493
AATVC 800	73	860	1170	530	678	622	640	592	554
AATVC 900	84	880	1315	600	759	696	715	668	628
AATVC 1000	90	1005	1460	670	846	775	790	735	690
AATVC 1120	103	1026	1630	750	942	898	880	857	770
AATVC 1250	113	1180	1815	840	1054	998	975	944	863

Model	D6	D7	E	F	G	H	H1	H2	I
AATVC 710	489	764	1123	497	115,5	630	630	550	485
AATVC 800	545	854	1264	560	121,5	710	710	620	485
AATVC 900	617	961	1428	631	129,5	800	800	695	485
AATVC 1000	670	1074	1590	707	165,5	900	900	770	762
AATVC 1120	713	1196	1770	791	174,5	1000	1000	860	862
AATVC 1250	802	1339	1983	890	197,5	960	840	960	1056

Model	J	K	L	M	N	N1xØ1	N2xØ2	N3	N4
AATVC 710	477	191	543	12	20	Nº8 M6x20	6x12	53	33
AATVC 800	477	203	543	23	20	Nº8 M6x20	6x12	55	33
AATVC 900	477	219	543	23	20	Nº8 M8x25	6x12	60	33
AATVC 1000	551	261	629	32	35	Nº8 M8x25	8x12	188	39
AATVC 1120	551	279	629	32	35	Nº8 M8x25	8x12	203	39
AATVC 1250	607	285	697	45	55	Nº8 M8x25	10x12	105	45

Model	O	P	Q	R	R'	S	S1	S2	S3
AATVC 710	289	191	110	33	20	570	493	489	475
AATVC 800	324	203	110	33	20	640	554	545	530
AATVC 900	361	219	110	33	20	715	628	617	600
AATVC 1000	174	261	110	39	35	790	690	670	670
AATVC 1120	446	279	110	39	35	880	770	713	750
AATVC 1250	607	285	140	45	55	975	863	802	840

Model	S4	S5	S6	S7	T	T1	U	U'	V
AATVC 710	764	605	547	522	23	12	485	400	720
AATVC 800	854	678	622	592	23	12	485	410	970
AATVC 900	961	759	696	668	23	14	485	420	970
AATVC 1000	1074	846	775	735	32	14	762	450	974
AATVC 1120	1196	942	898	857	32	16	862	520	974
AATVC 1250	1339	1054	998	944	45	18	1056	1056	1066

Model	V1	W	X	X1	X2	X3	X4	X5	X6
AATVC 710	42	1250	493	475	764	605	547	570	522
AATVC 800	42	1500	554	530	854	678	622	640	592
AATVC 900	48	1500	628	600	961	759	696	715	668
AATVC 1000	48	1800	690	670	1074	846	775	790	735
AATVC 1120	55	1800	770	750	1196	942	898	880	857
AATVC 1250	65	2212	863	840	1339	1054	998	975	944

Model	X7	Y	a	a1	a2	b	b1	b2	d
AATVC 710	489	160	146	182	216	105	139	175	205
AATVC 800	545	160	166	200	236	117	151	187	228
AATVC 900	617	160	185	219	255	131	165	201	255
AATVC 1000	670	180	207	241	277	148	182	218	285

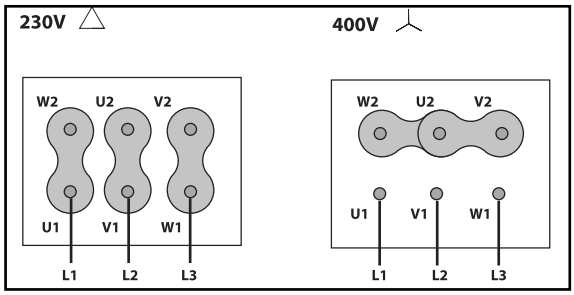
Model	X7	Y	a	a1	a2	b	b1	b2	d
AATVC 1120	713	180	231	265	301	166	200	236	320
AATVC 1250	802	220	258	292	328	185	219	255	360

Model	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVC 710	241	275	-	1x112	19	19
AATVC 800	265	298	-	1x112	19	19
AATVC 900	292	325	-	1x112	19	19
AATVC 1000	332	365	1x112	1x112	24	20
AATVC 1120	366	400	1x112	1x112	19	20
AATVC 1250	405	440	1x112	2x112	24	20

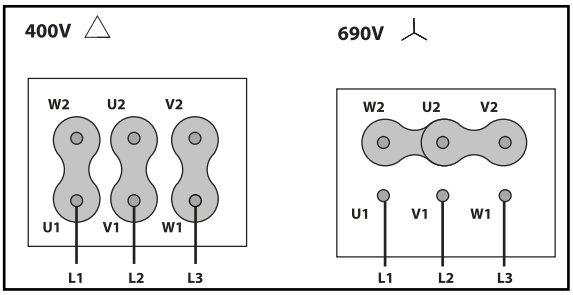
Wiring diagram

DIAGRAM Nº 1

230/400V



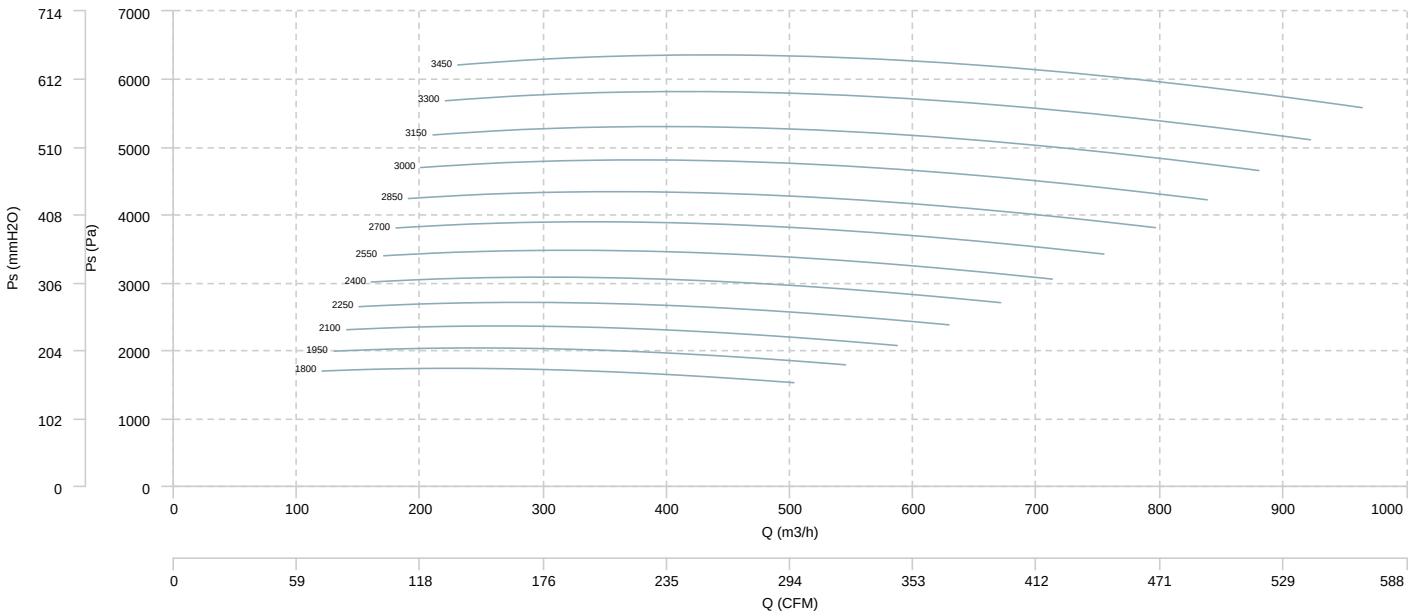
400/690V



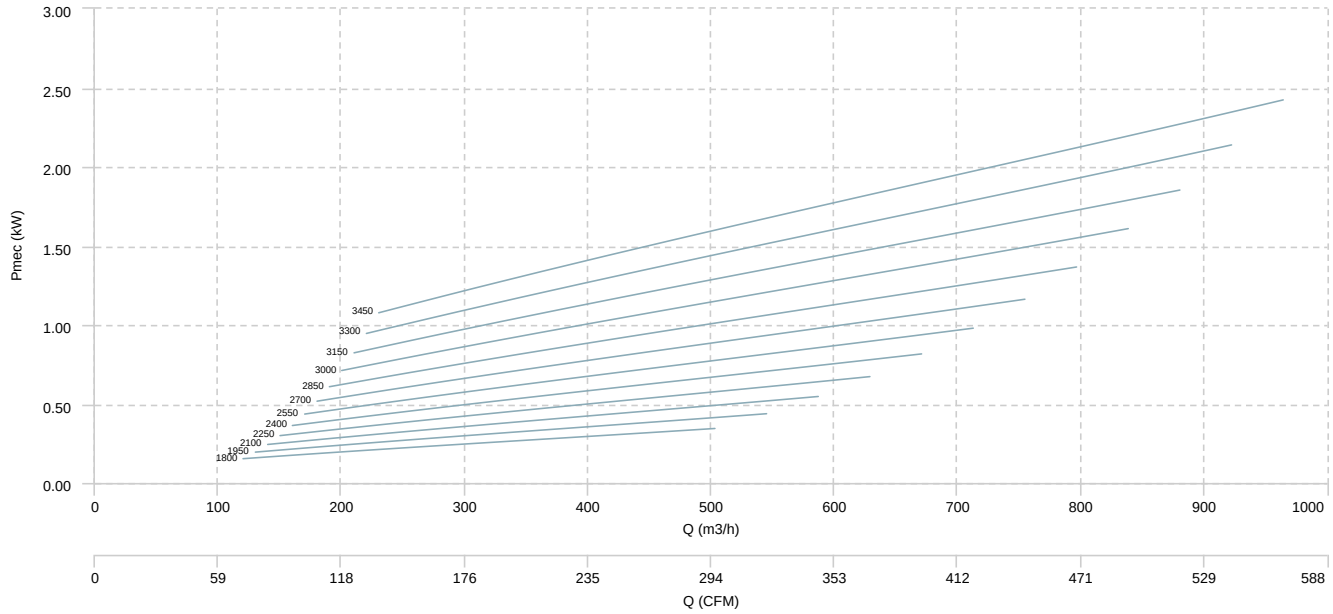
CHARACTERISCTIC CURVE

AATVC 500

AIR FLOW - PRESSURE

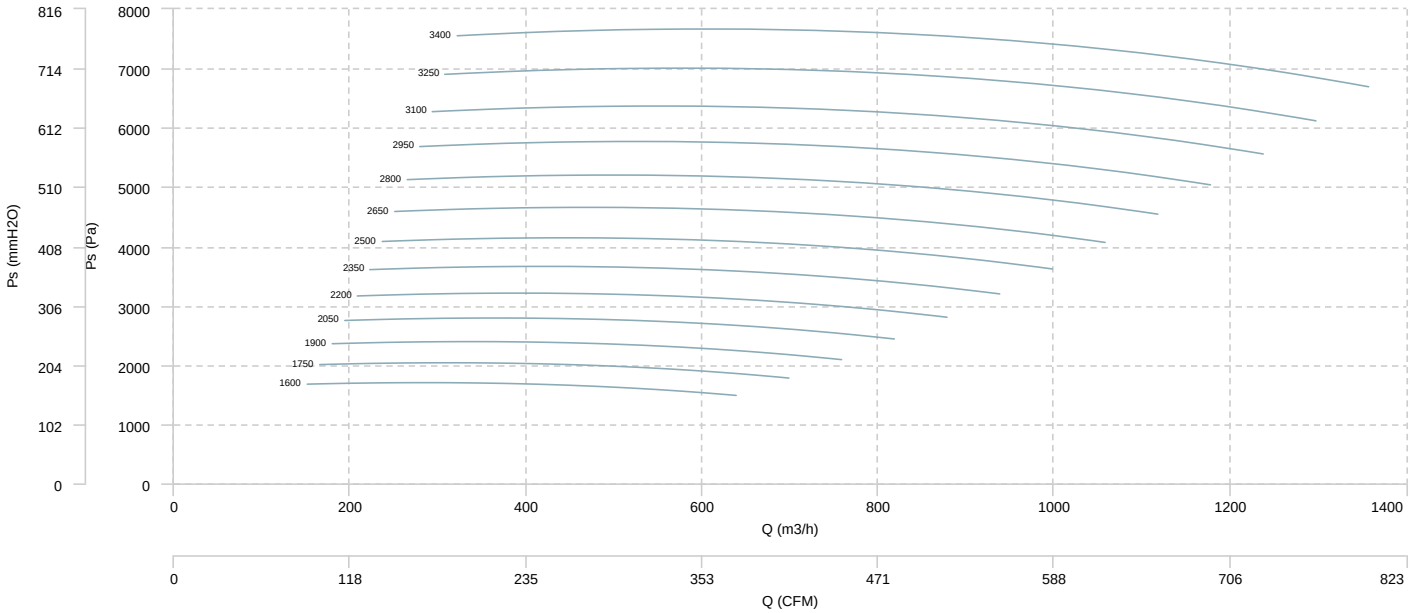


AIR FLOW - MECHANICAL POWER

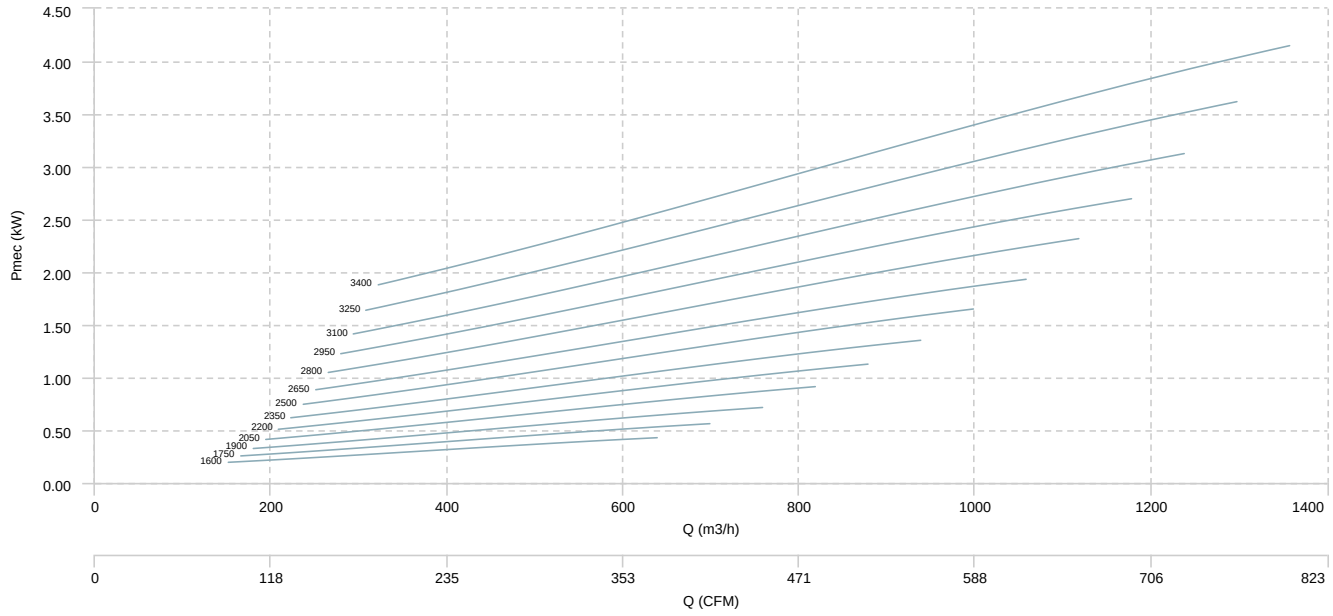


AATVC 560

AIR FLOW - PRESSURE

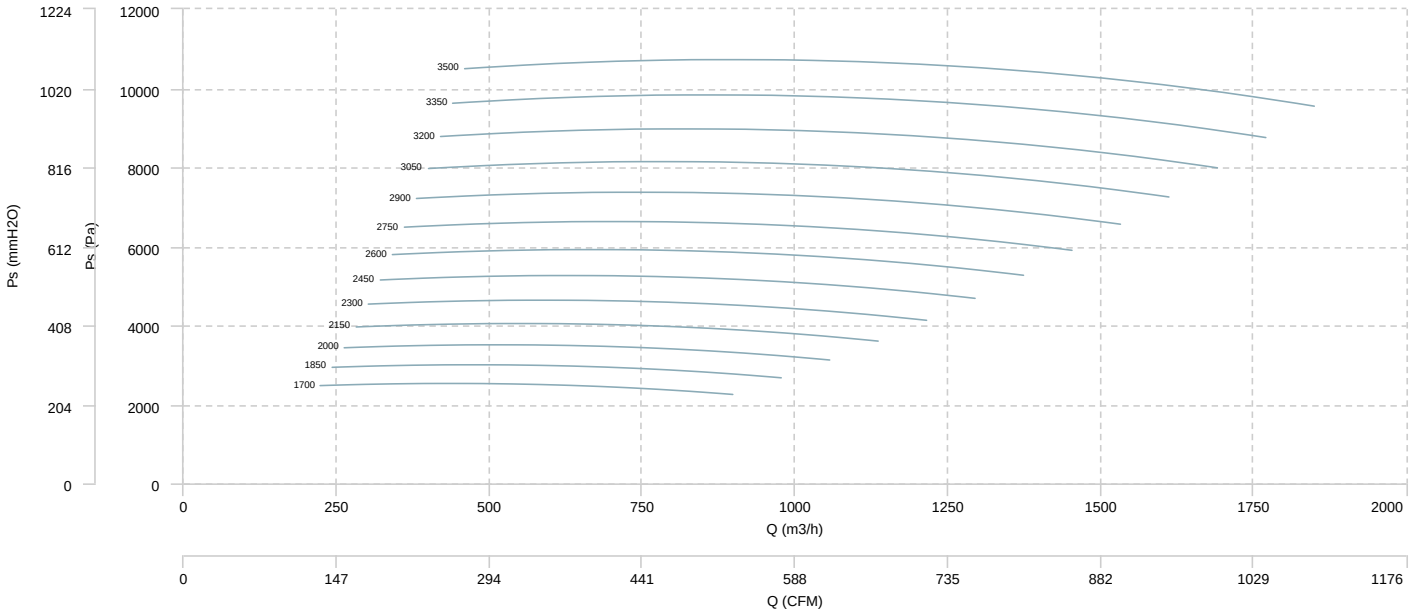


AIR FLOW - MECHANICAL POWER

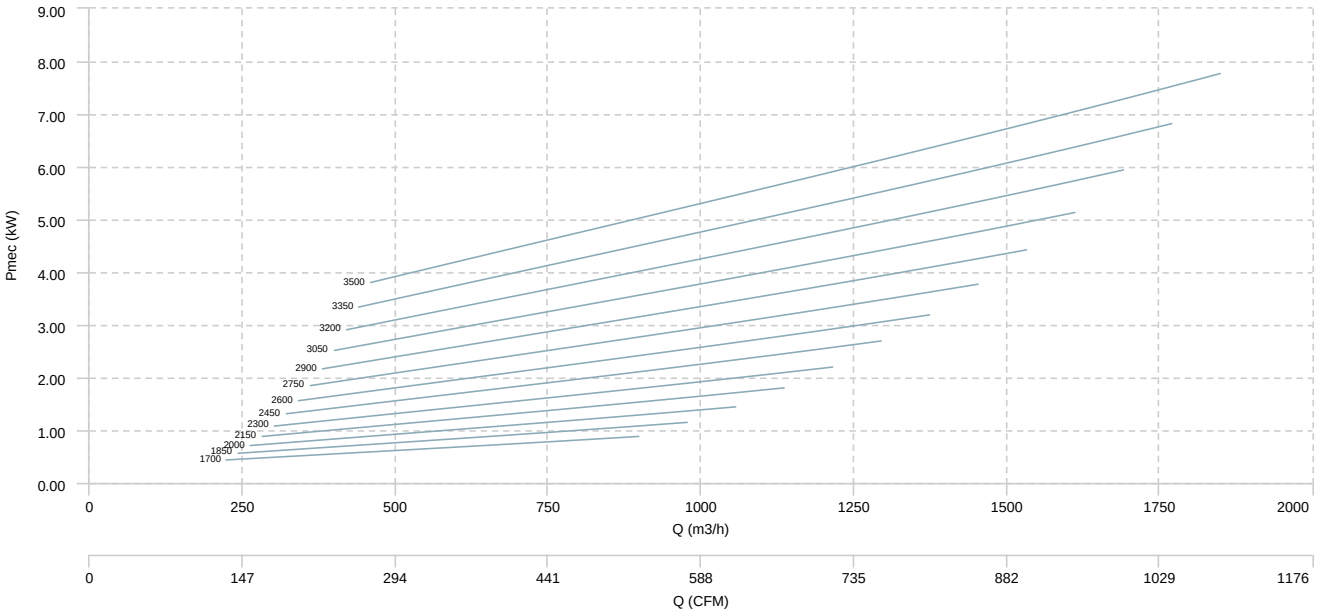


AATVC 630

AIR FLOW - PRESSURE

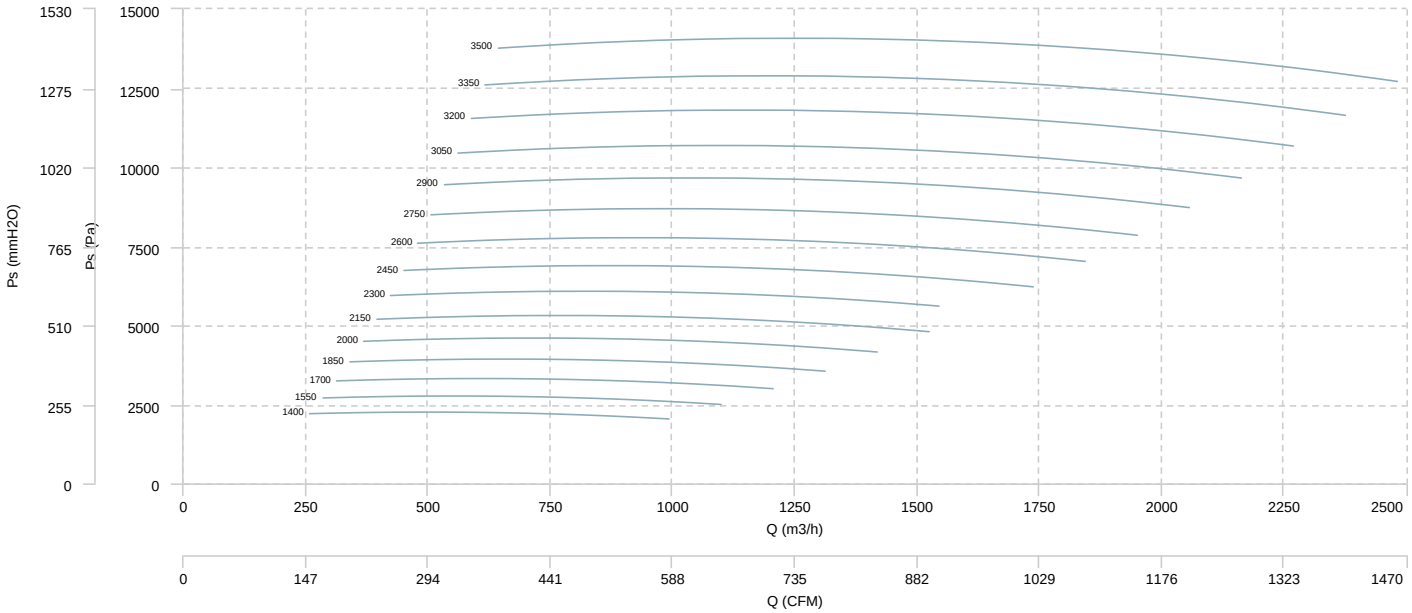


AIR FLOW - MECHANICAL POWER

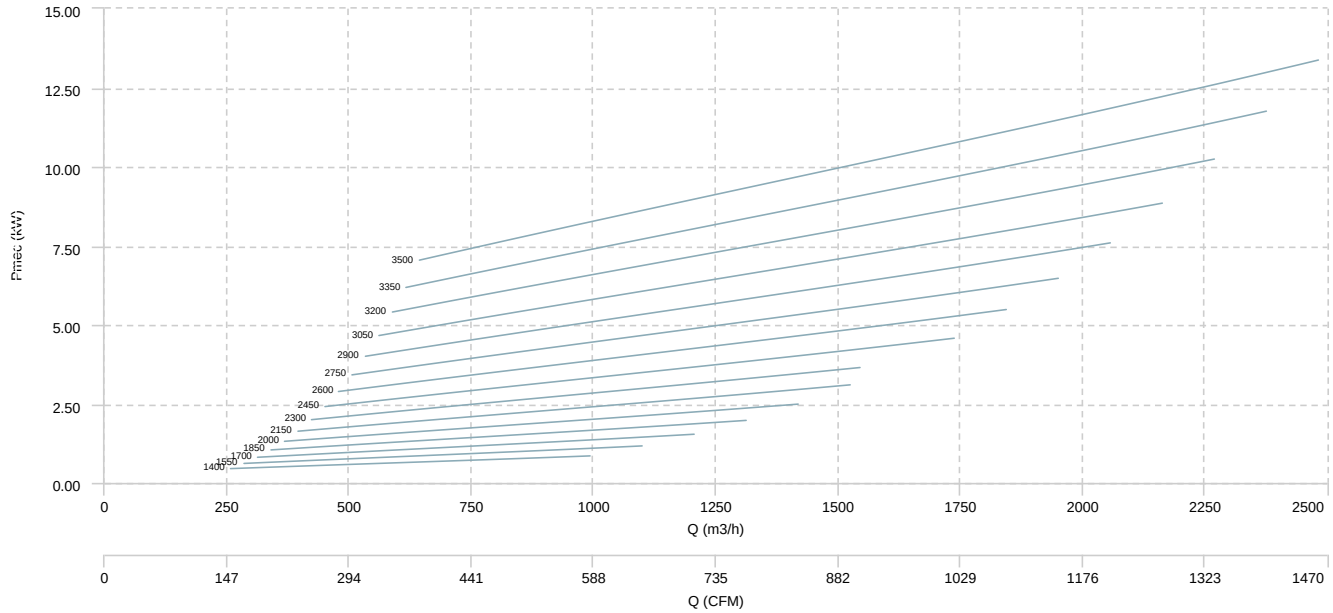


AATVC 710

AIR FLOW - PRESSURE

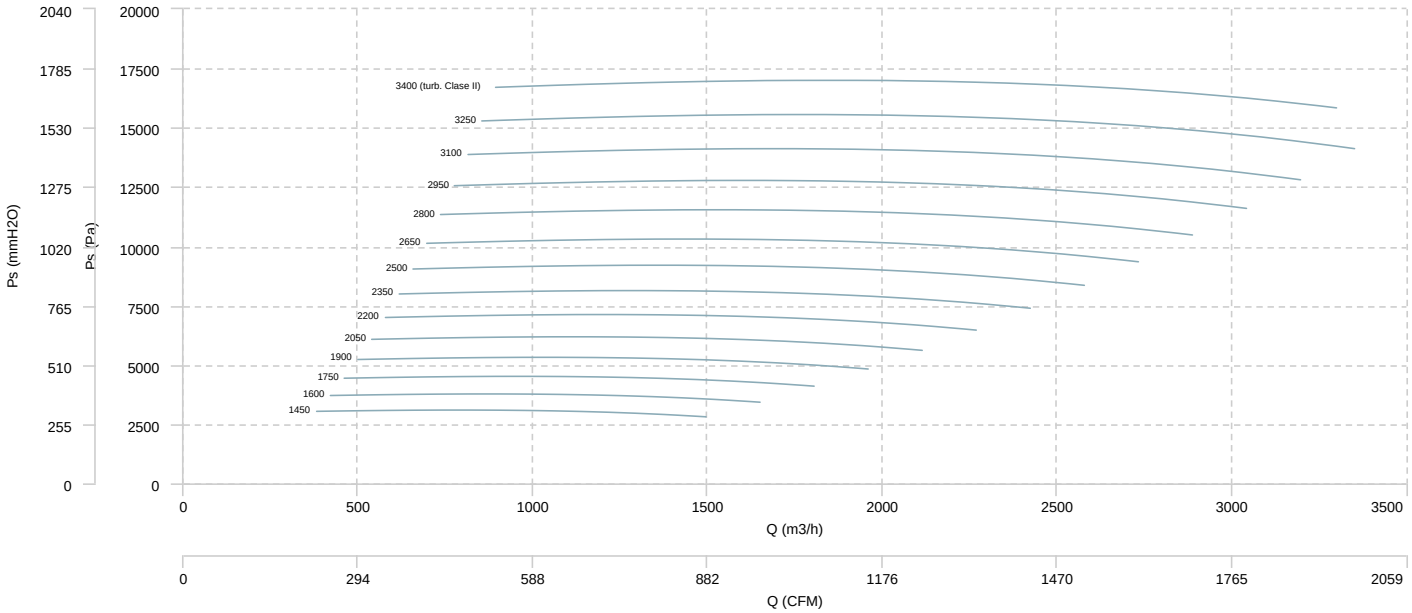


AIR FLOW - MECHANICAL POWER

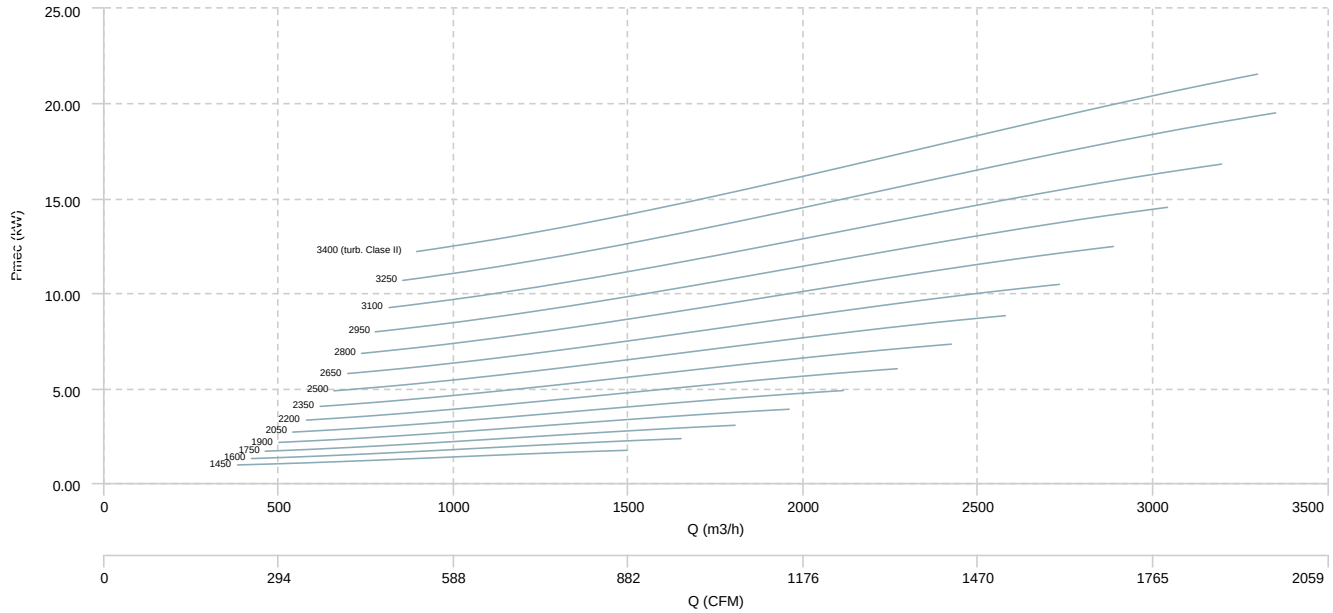


AATVC 800

AIR FLOW - PRESSURE

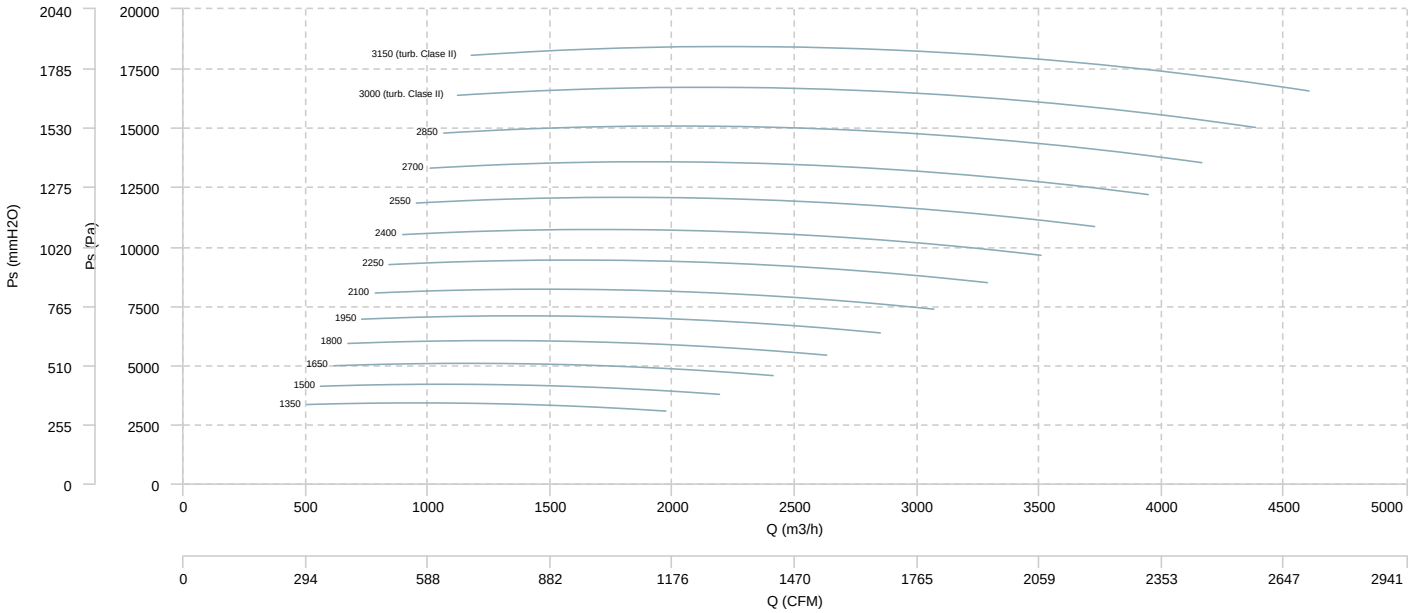


AIR FLOW - MECHANICAL POWER

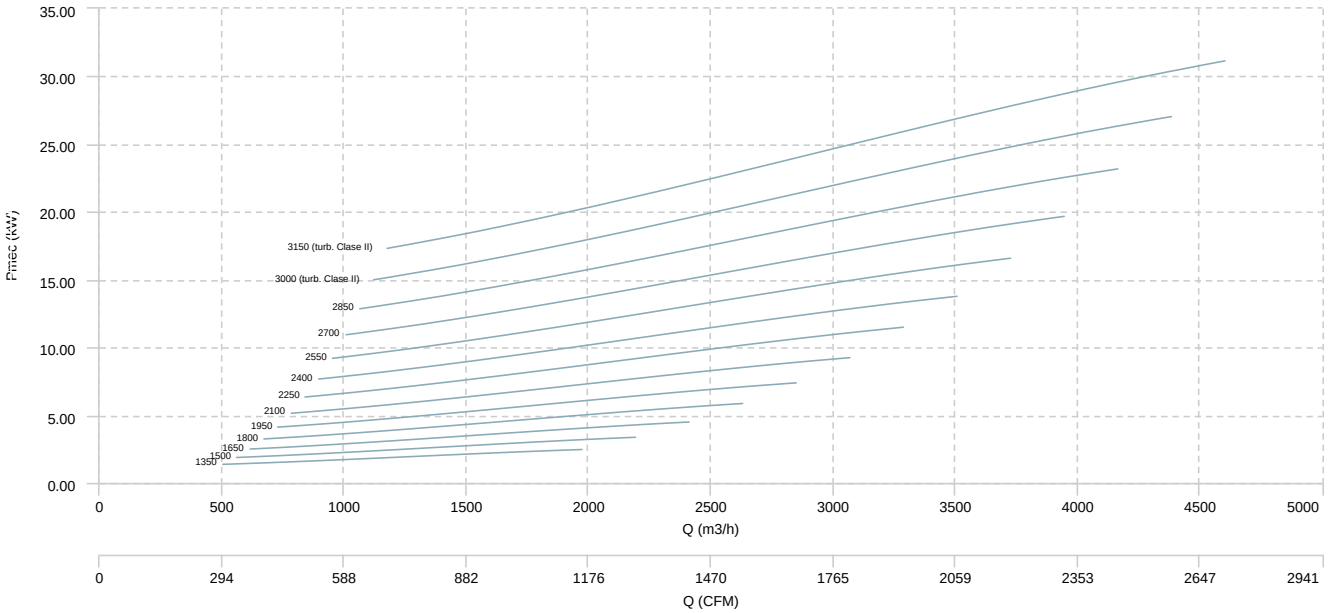


AATVC 900

AIR FLOW - PRESSURE

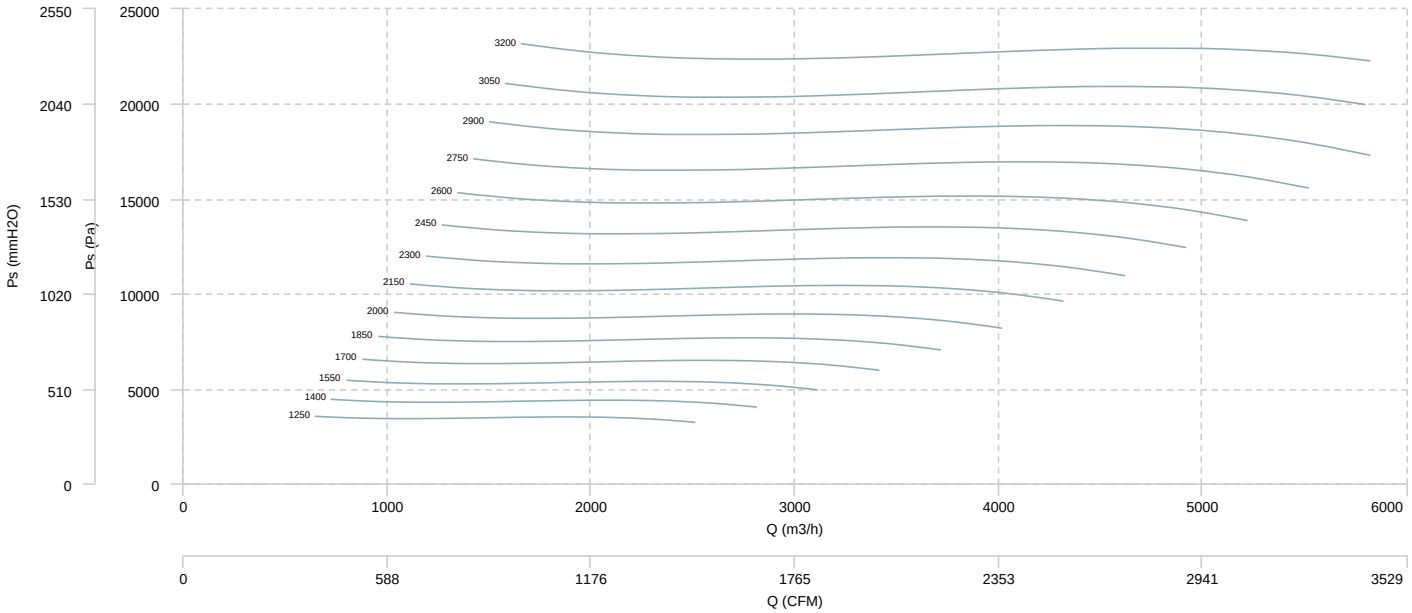


AIR FLOW - MECHANICAL POWER

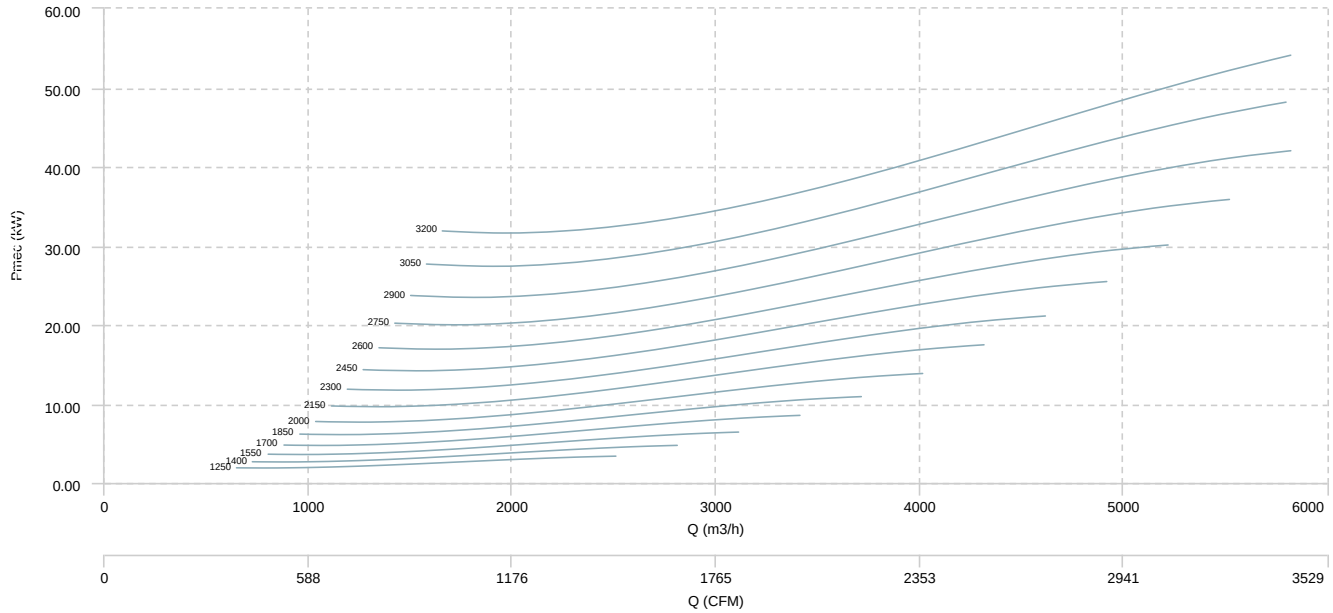


AATVC 1000

AIR FLOW - PRESSURE

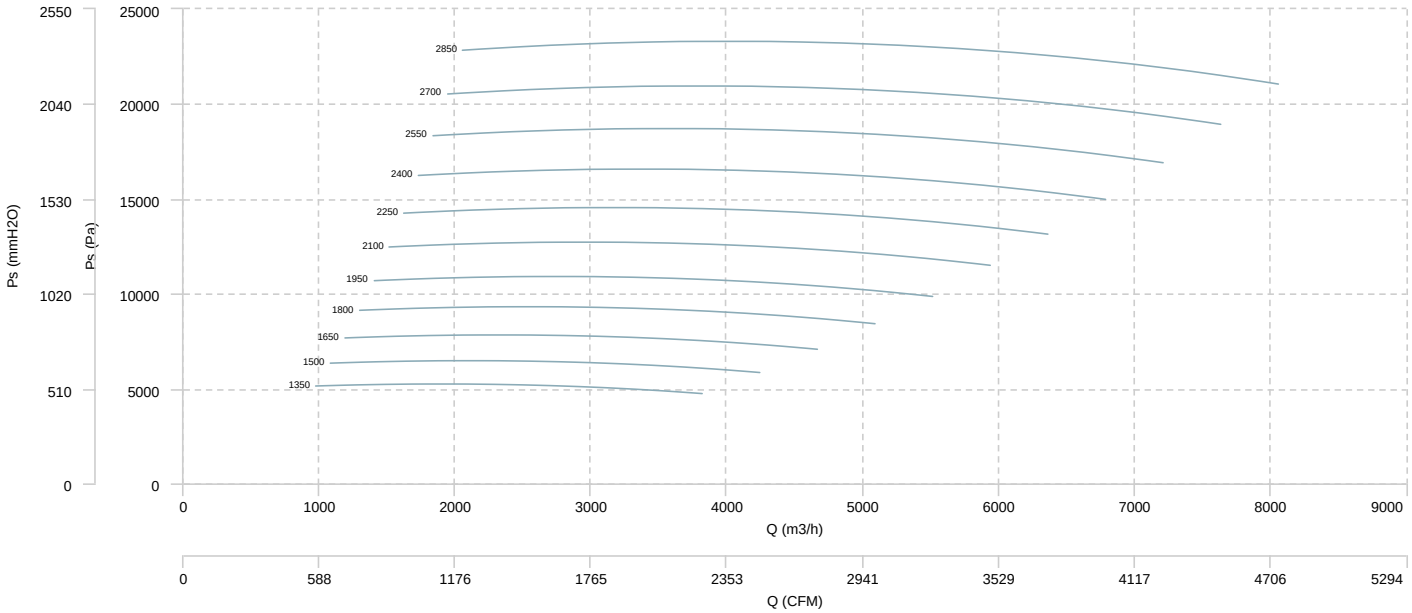


AIR FLOW - MECHANICAL POWER

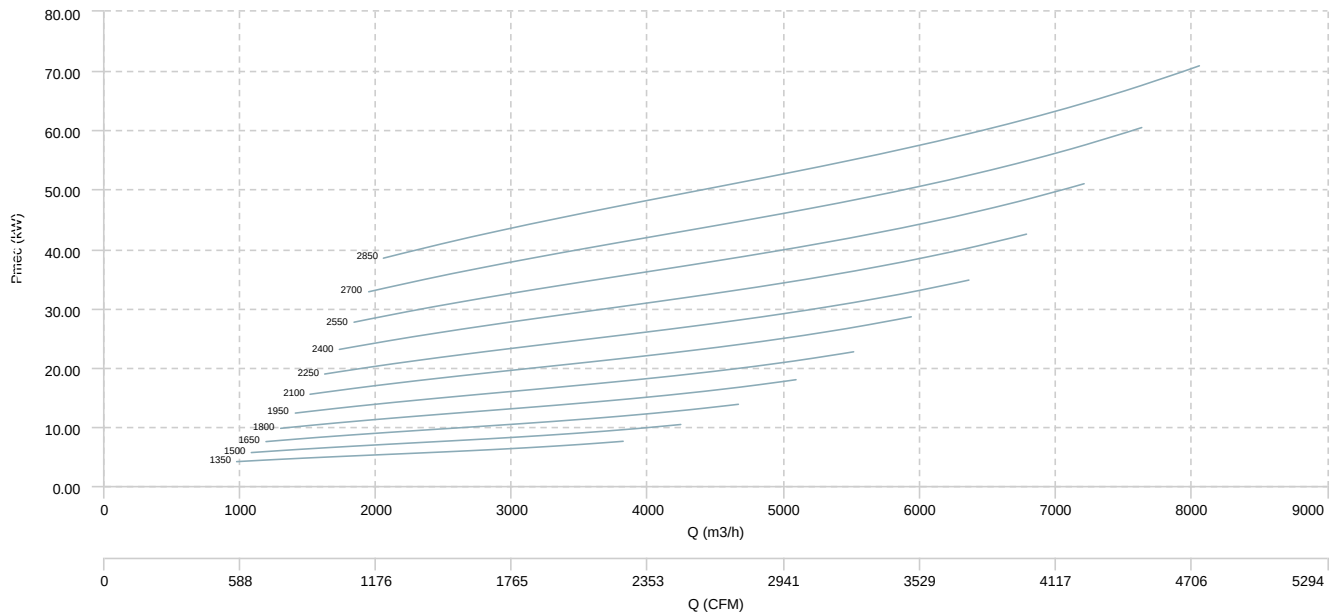


AATVC 1120

AIR FLOW - PRESSURE

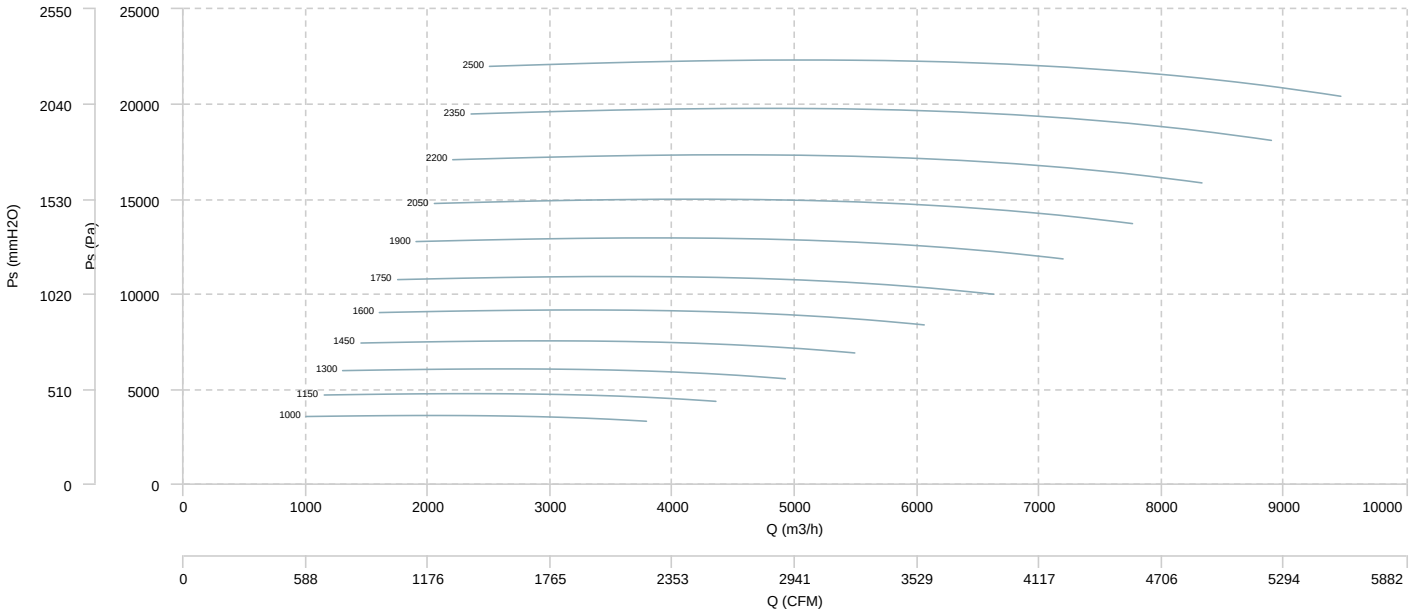


AIR FLOW - MECHANICAL POWER

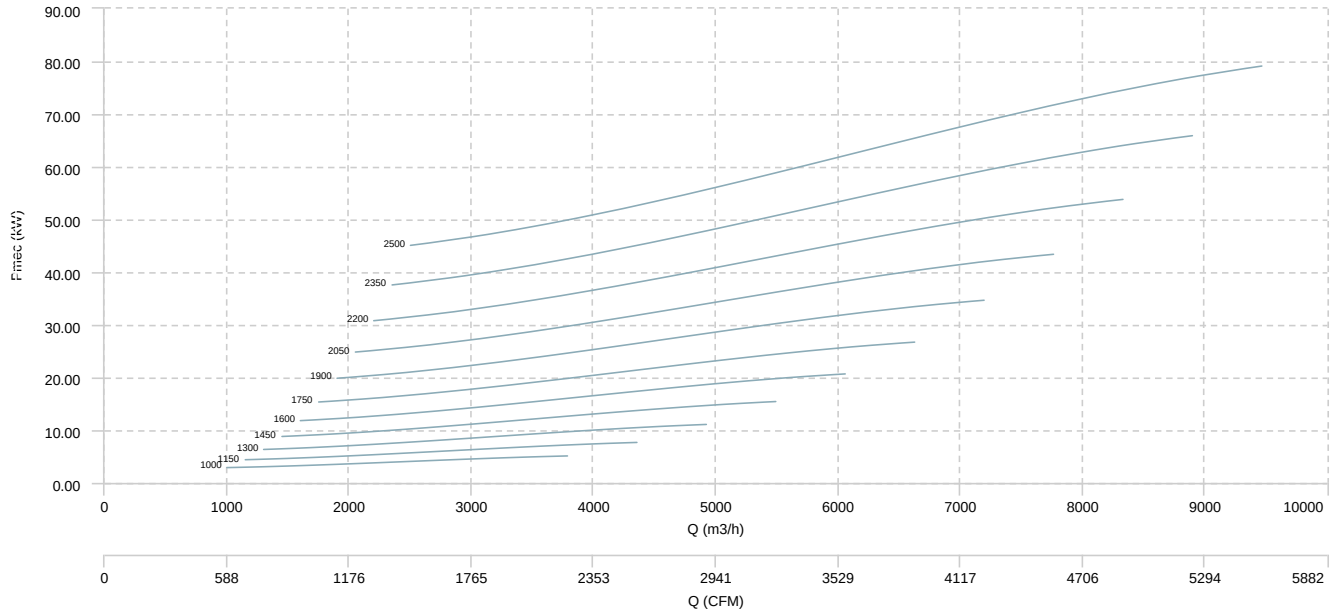


AATVC 1250

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**
AATVC 500 (1800 RPM)	Inlet	42	54	61	65	66	61	55	52	70
AATVC 560 (1600 RPM)	Inlet	43	55	61	65	66	61	55	52	70
AATVC 630 (1700 RPM)	Inlet	46	58	65	69	70	65	59	56	74
AATVC 710 (1400 RPM)	Inlet	45	57	63	67	68	63	57	54	72
AATVC 800 (1450 RPM)	Inlet	48	60	67	71	72	67	60	57	76
AATVC 900 (1350 RPM)	Inlet	49	61	67	71	72	68	61	58	76
AATVC 1000 (1250 RPM)	Inlet	51	63	69	73	74	69	63	60	78
AATVC 1120 (1350 RPM)	Inlet	54	66	73	77	78	73	67	64	82
AATVC 1250 (1000 RPM)	Inlet	53	65	71	75	76	72	65	62	80

Notes:

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

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