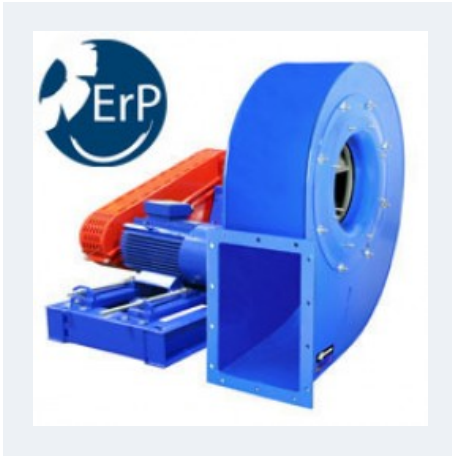


AATVM



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 350 to 630. Models sizes from 710 to 2000 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.
- Clean and slightly dusty air transport.
- Exhaust after filters, separators and cyclones.
- Pneumatic 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.

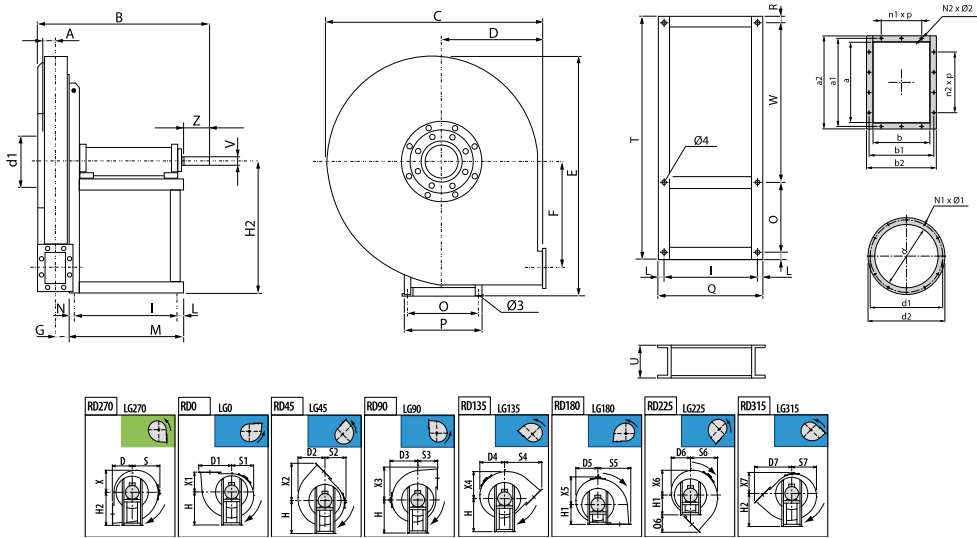
Technical data

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
5065035__R__	AATVM 350	2000	-	3	1.760	47	35	1
5065040__R__	AATVM 400	2000	-	7,50	2.200	49	52	1
5065045__R__	AATVM 450	1800	-	7,50	3.710	51	76	1
5065050__R__	AATVM 500	1800	-	18,50	4.810	52	91	1
5065056__R__	AATVM 560	1600	-	22	7.840	55	118	1
5065063__R__	AATVM 630	1600	-	37	10.630	57	160	1
5065071__R__	AATVM 710	1450	-	45	13.570	58	237	1
5065080__R__	AATVM 800	1450	-	55	16.970	60	285	1
5065090__R__	AATVM 900	1250	-	90	23.740	60	437	1
5065100__R__	AATVM 1000	1250	-	200	35.560	63	690	1
5065112__R__	AATVM 1120	1150	-	200	41.180	65	738	1
5065125__R__	AATVM 1250	1000	-	200	47.810	65	1.105	1
5065140__R__	AATVM 1400	900	-	200	55.750	65	1.288	1
5065160__R__	AATVM 1600	800	-	315	77.780	66	1.713	1
5065180__R__	AATVM 1800	750	-	315	90.030	68	2.370	1
5065200__R__	AATVM 2000	650	-	315	104.430	68	3.064	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
AATVM 350	65	555	565	250	323	287	315	280	262
AATVM 400	71	710	620	280	356	314	340	302	284
AATVM 450	78	745	675	300	393	350	375	335	313
AATVM 500	86	765	745	335	436	386	410	370	345
AATVM 560	95	885	835	375	488	438	460	418	393
AATVM 630	105	905	940	425	545	493	515	472	440

Model	D6	D7	E	F	G	H	H1	H2	I
AATVM 350	272	405	617	215	56	355	250	355	284
AATVM 400	293	450	659	238	63	375	280	375	407
AATVM 450	319	490	713	265	70	400	300	400	407
AATVM 500	350	546	795	297	78	450	335	450	407
AATVM 560	392	613	893	337	88	500	375	500	477
AATVM 630	438	688	1000	381	98	560	425	560	477

Model	L	M	N	N1xØ1	N2xØ2	O	O6	P	Q
AATVM 350	23	347	40	8x8	6x12	288	155	324	330
AATVM 400	28	485	50	8x8	6x12	355	170	400	463
AATVM 450	28	485	50	8x8	6x12	355	190	400	463
AATVM 500	28	485	50	8x10	8x12	355	211	400	463
AATVM 560	33	560	50	8x12	8x12	364	238	418	543
AATVM 630	33	560	50	8x12	10x12	364	263	418	543

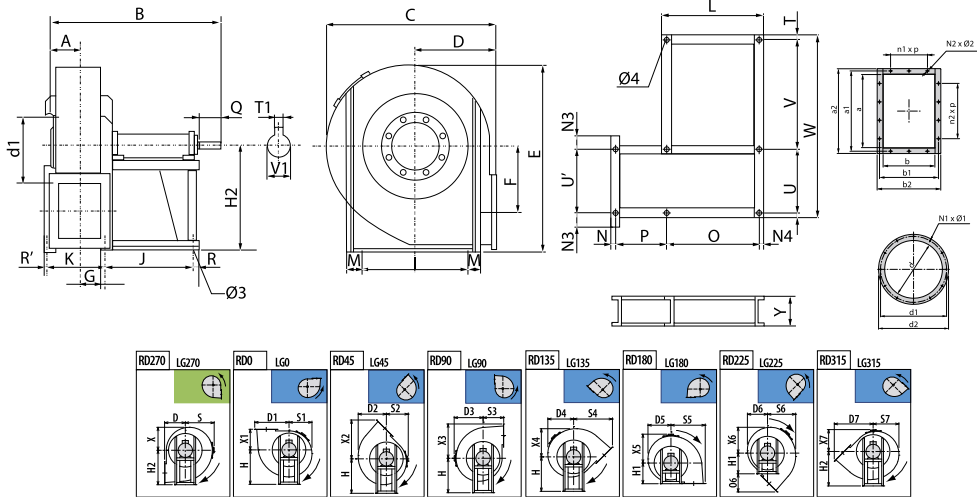
Model	R	S	S1	S2	S3	S4	S5	S6	S7
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Model	R	S	S1	S2	S3	S4	S5	S6	S7
AATVM 350	18	315	262	272	250	405	323	287	280
AATVM 400	23	340	284	293	280	450	356	314	302
AATVM 450	23	375	313	319	300	490	393	350	335
AATVM 500	23	410	345	350	335	546	436	386	370
AATVM 560	27	460	393	392	375	613	488	438	418
AATVM 630	27	515	440	438	425	688	545	493	472

Model	T	U	V	W	X	X1	X2	X3	X4
AATVM 350	900	100	24	576	262	250	405	323	287
AATVM 400	1060	120	28	660	284	280	450	356	314
AATVM 450	1060	120	38	660	313	300	490	393	350
AATVM 500	1180	120	38	780	345	335	546	436	386
AATVM 560	1250	160	42	832	393	375	613	488	438
AATVM 630	1250	160	48	832	440	425	688	545	493

Model	X5	X6	X7	Z	a	a1	a2	b	b1
AATVM 350	315	280	272	50	146	182	216	105	139
AATVM 400	340	302	293	60	166	200	236	117	151
AATVM 450	375	335	319	80	185	219	255	131	165
AATVM 500	410	370	350	80	207	241	277	148	182
AATVM 560	460	418	392	110	231	265	301	166	200
AATVM 630	515	472	438	110	258	292	328	185	219

Model	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVM 350	175	185	219	250	-	1x112	12	12
AATVM 400	187	205	241	275	-	1x112	14	14
AATVM 450	201	228	265	298	-	1x112	14	14
AATVM 500	218	255	292	325	1x112	1x112	14	14
AATVM 560	236	285	332	365	1x112	1x112	17	17
AATVM 630	255	320	366	400	1x112	1x112	17	17



Model	A	B	C	D	D1	D2	D3	D4	D5
AATVM 710	115	1035	1045	475	610	547	570	522	493
AATVM 800	127	1070	1170	530	682	622	640	592	555
AATVM 900	140	1240	1315	600	763	696	715	668	628
AATVM 1000	160	1435	1460	670	849	805	790	765	691
AATVM 1120	185	1465	1630	750	951	898	880	857	770
AATVM 1250	200	1500	1815	840	1059	998	975	944	864
AATVM 1400	232	1655	2028	936	1188	1114	1092	1063	963
AATVM 1600	257	1915	2310	1060	1334	1271	1250	1218	1110
AATVM 1800	404	2000	2607	1210	1498	1425	1397	1357	1238
AATVM 2000	434	2065	2840	1320	1664	1556	1520	1475	1343

Model	D6	D7	E	F	G	H	H1	H2	I
AATVM 710	489	767	1123	426	160	630	475	550	526
AATVM 800	545	854	1265	481	192,5	710	530	620	526
AATVM 900	617	963	1428	542	222	800	600	695	663
AATVM 1000	640	1074	1591	607	263	900	670	770	850
AATVM 1120	713	1202	1770	684	278,5	860	750	860	1178
AATVM 1250	802	1343	1984	765	298	960	840	960	1310
AATVM 1400	893	1500	2163	853	349,5	1070	936	1070	1450
AATVM 1600	1033	1693	2510	965	384	1200	1060	1200	1640
AATVM 1800	1145	1915	2788	1090	411	1400	1210	1400	1830
AATVM 2000	1246	2109	3143	1203	462	1500	1320	1500	2030

Model	J	K	L	M	N	N1xØ1	N2xØ2	N3	N4
AATVM 710	551	300	629	32	20	8x12	10x12	63	39
AATVM 800	551	325	629	32	30	12x12	10x12	93	39
AATVM 900	607	354	697	36	45	12x12	10x12	116	45

Model	J	K	L	M	N	N1xØ1	N2xØ2	N3	N4
AATVM 1000	760	426	850	55	50	12x14	14x12	112,5	45
AATVM 1120	760	447	850	45	55	12x14	14x12	106	45
AATVM 1250	760	486	1010	45	55	12x14	14x12	110	45
AATVM 1400	780	569	1010	55	65	16x14	14x12	120	55
AATVM 1600	917	638	1100	60	65	16x14	14x12	120	65
AATVM 1800	917	692	1100	60	65	16x14	14x12	130	65
AATVM 2000	917	754	1100	60	85	24x14	16x12	170	65

Model	O	O6	P	Q	R	R'	S	S1	S2
AATVM 710	551	262	300	110	39	20	570	493	489
AATVM 800	551	324	325	110	39	30	640	555	545
AATVM 900	607	363	354	140	45	45	715	628	617
AATVM 1000	760	404	426	140	45	50	790	691	640
AATVM 1120	760	452	447	140	45	55	880	770	713
AATVM 1250	760	503	486	140	45	55	975	864	802
AATVM 1400	780	564	569	170	55	65	1092	963	983
AATVM 1600	917	633	638	210	65	65	1250	1110	1033
AATVM 1800	917	705	692	210	65	65	1397	1238	1145
AATVM 2000	917	789	754	210	65	85	1520	1343	1246

Model	S3	S4	S5	S6	S7	T	T1	U	U'
AATVM 710	475	767	610	547	522	32	14	526	570
AATVM 800	530	854	682	622	592	32	16	526	600
AATVM 900	600	963	763	696	668	36	18	663	663
AATVM 1000	670	1074	849	805	765	55	20	850	780
AATVM 1120	750	1202	951	898	857	45	20	1178	1178
AATVM 1250	840	1343	1059	998	944	45	20	1310	1310
AATVM 1400	936	1500	1188	1114	1063	55	22	1450	1450
AATVM 1600	1060	1693	1334	1271	1218	60	25	1640	1640
AATVM 1800	1210	1915	1498	1425	1357	60	28	1830	1830
AATVM 2000	1320	2109	1664	1556	1475	60	28	2030	2030

Model	V	V1	X	X1	X2	X3	X4	X5	X6
AATVM 710	1010	48	493	475	767	610	547	570	522
AATVM 800	1010	55	555	530	854	682	622	640	592
AATVM 900	1065	65	628	600	963	763	696	715	668
AATVM 1000	1240	75	691	670	1074	849	805	790	765
AATVM 1120	1066	75	770	750	1202	951	898	880	857
AATVM 1250	1230	75	864	840	1343	1059	998	975	944
AATVM 1400	1240	80	963	936	1500	1188	1114	1092	1063

Model	V	V1	X	X1	X2	X3	X4	X5	X6
AATVM 1600	1195	90	1110	1060	1693	1334	1271	1250	1218
AATVM 1800	1295	100	1238	1210	1915	1498	1425	1397	1357
AATVM 2000	1350	100	1343	1320	2109	1664	2556	1520	1475

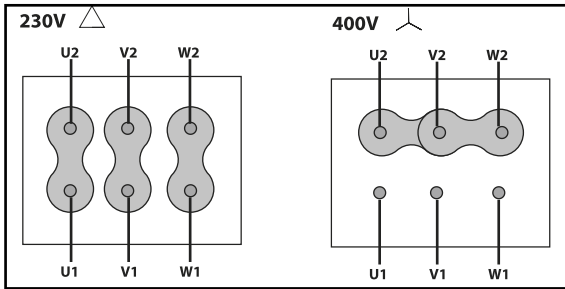
Model	X7	Y	a	a1	a2	b	b1	b2	d
AATVM 710	489	180	288	332	368	205	249	285	360
AATVM 800	545	180	322	366	402	229	273	309	405
AATVM 900	617	200	361	405	441	256	300	336	455
AATVM 1000	640	200	404	448	484	288	332	368	505
AATVM 1120	713	220	453	497	533	322	366	402	565
AATVM 1250	802	220	507	551	587	361	405	441	635
AATVM 1400	893	220	569	629	669	404	464	504	715
AATVM 1600	1033	220	638	698	738	453	513	553	805
AATVM 1800	1145	250	715	775	815	507	567	607	905
AATVM 2000	1246	250	801	871	921	569	639	689	1007

Model	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVM 710	405	440	1x125	2x125	19	20
AATVM 800	448	485	1x125	2x125	19	20
AATVM 900	497	535	1x125	2x125	19	20
AATVM 1000	551	585	2x125	3x125	24	25
AATVM 1120	629	665	2x125	3x125	24	24
AATVM 1250	698	735	2x125	3x125	24	30
AATVM 1400	775	815	2x160	3x160	28	30
AATVM 1600	861	905	2x160	3x160	28	30
AATVM 1800	958	1005	2x160	4x160	28	30
AATVM 2000	1067	1107	2x200	3x200	30	30

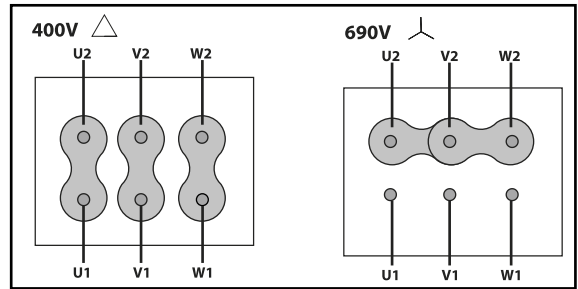
Wiring diagram

DIAGRAM Nº 1

230/400V



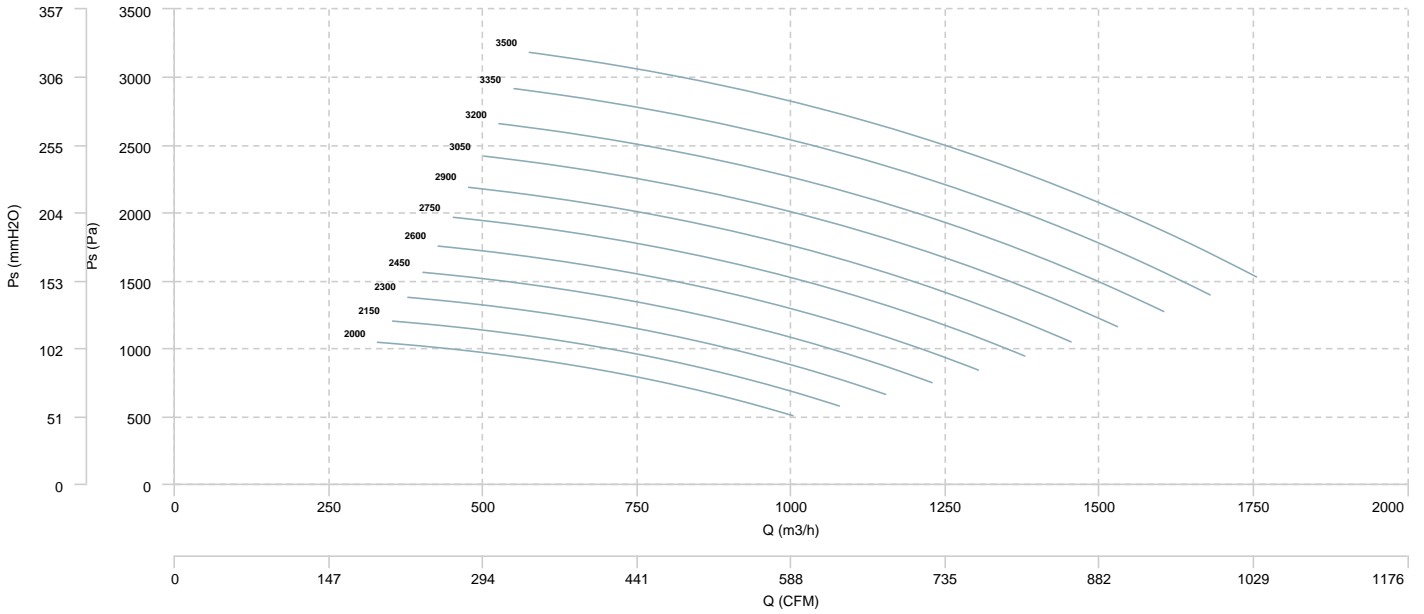
400/690V



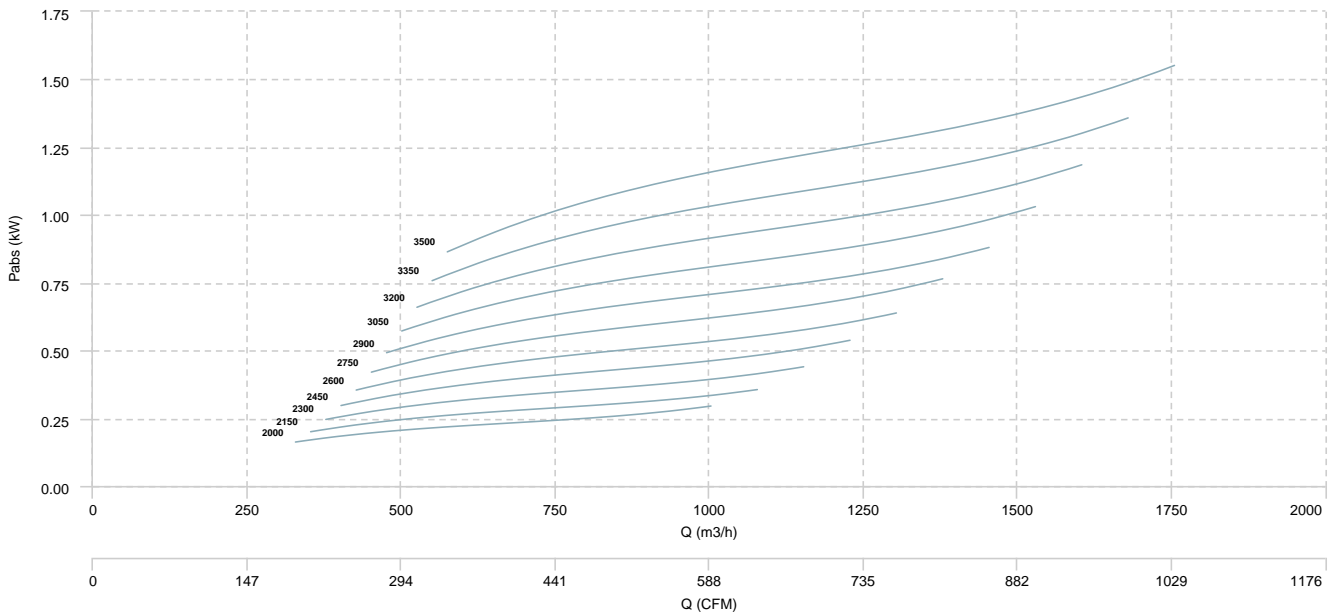
CHARACTERISTIC CURVE

AATVM 350

AIR FLOW - PRESSURE

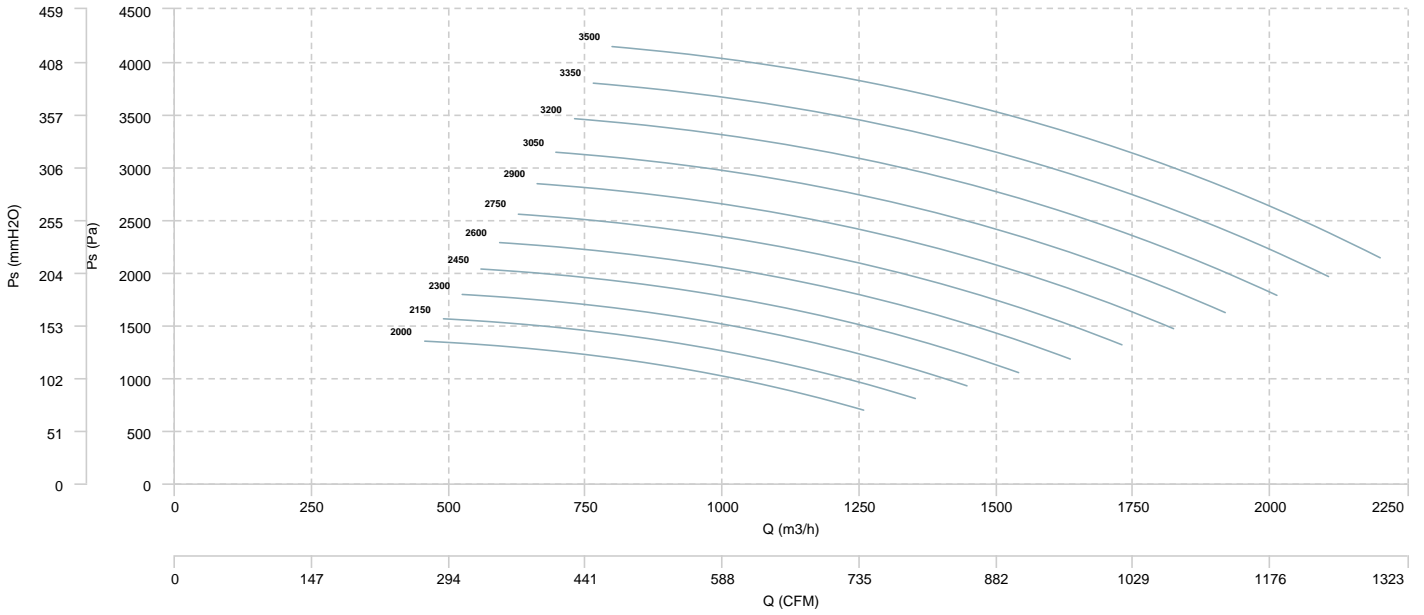


AIR FLOW - MECHANICAL POWER

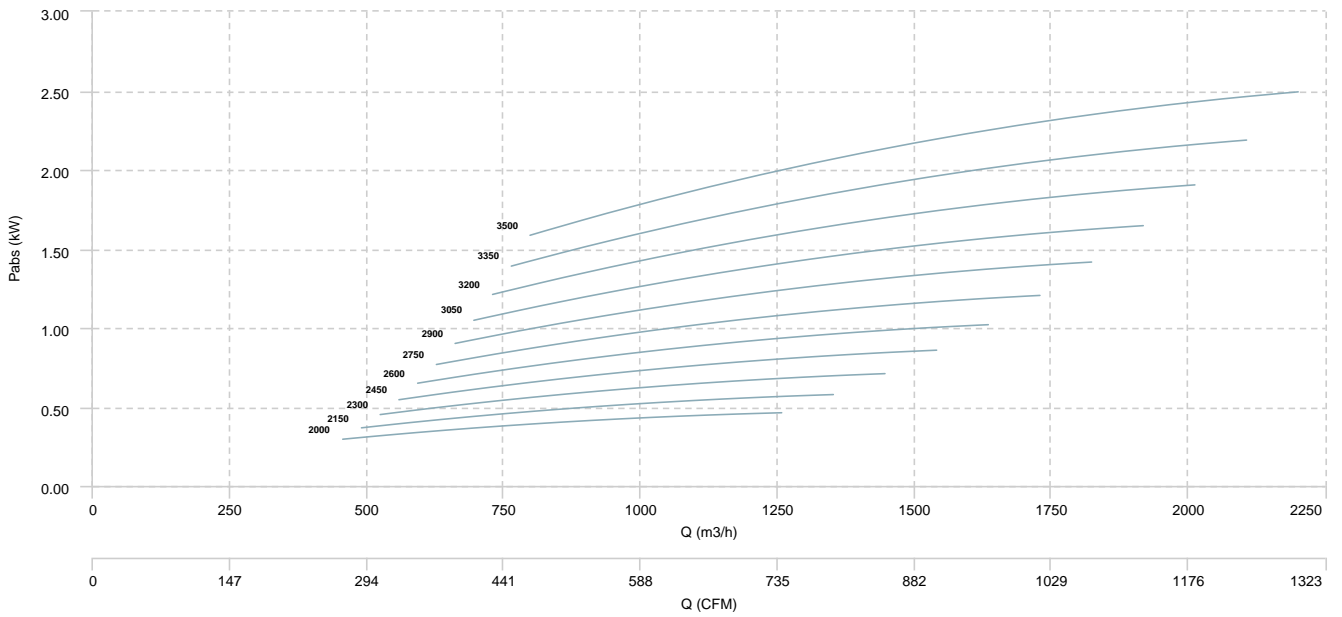


AATVM 400

AIR FLOW - PRESSURE

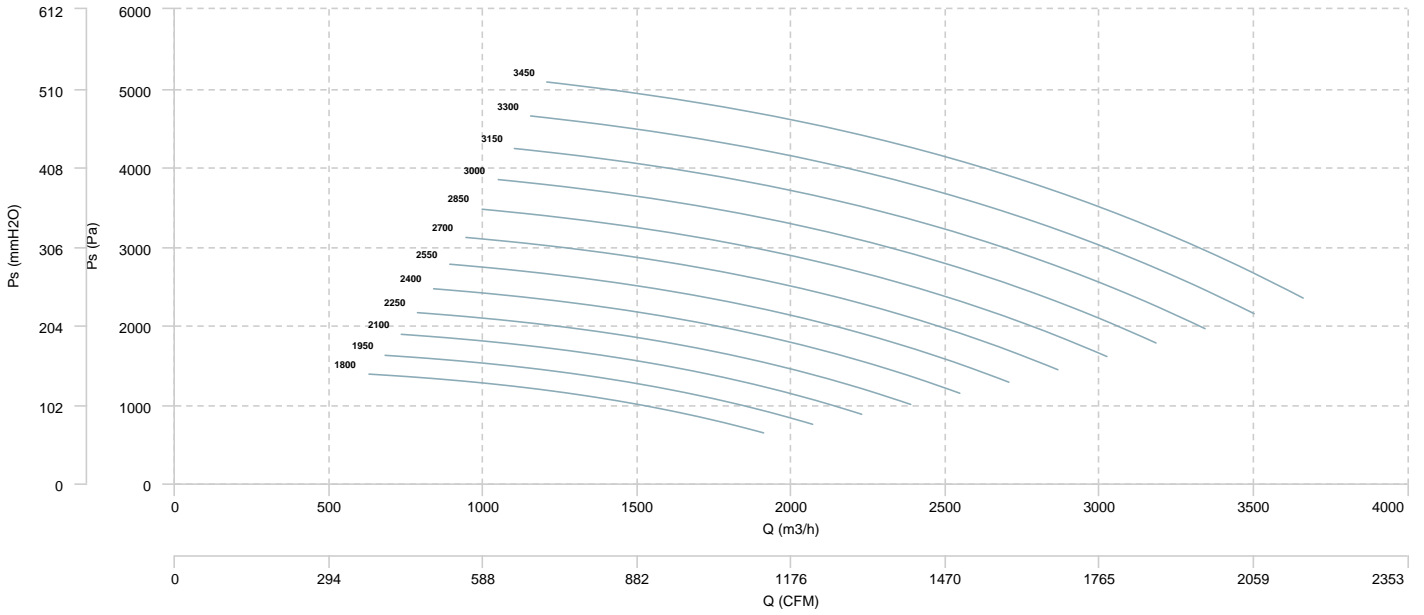


AIR FLOW - MECHANICAL POWER

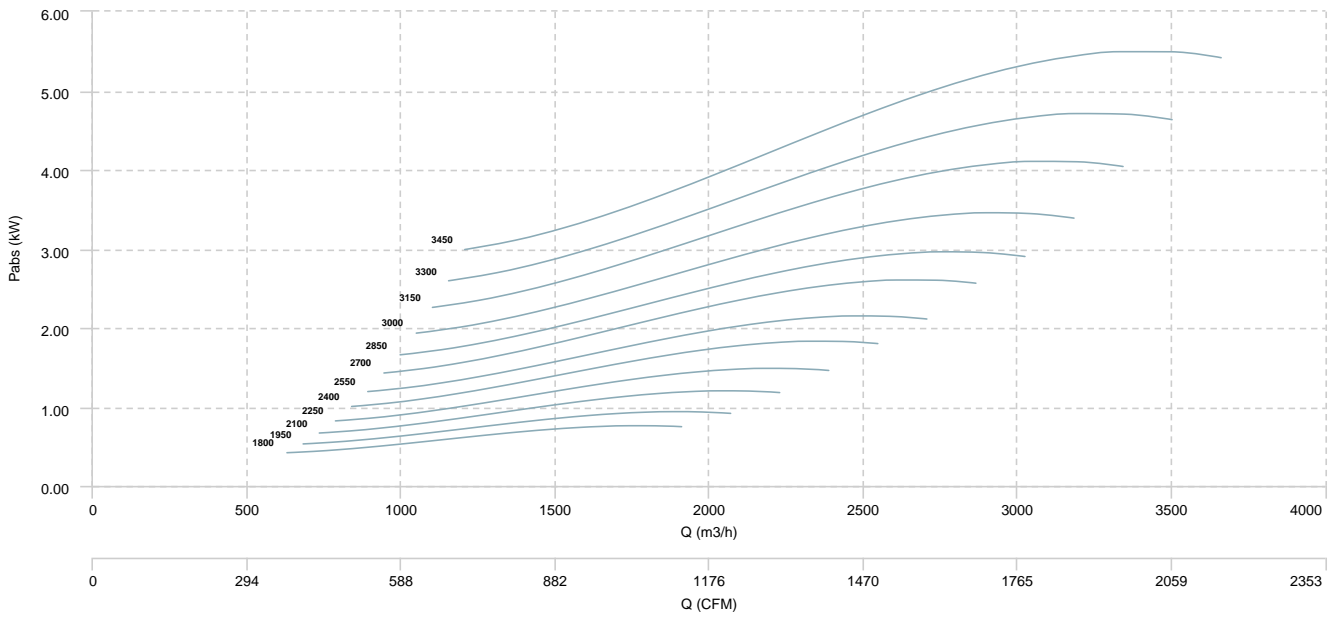


AATVM 450

AIR FLOW - PRESSURE

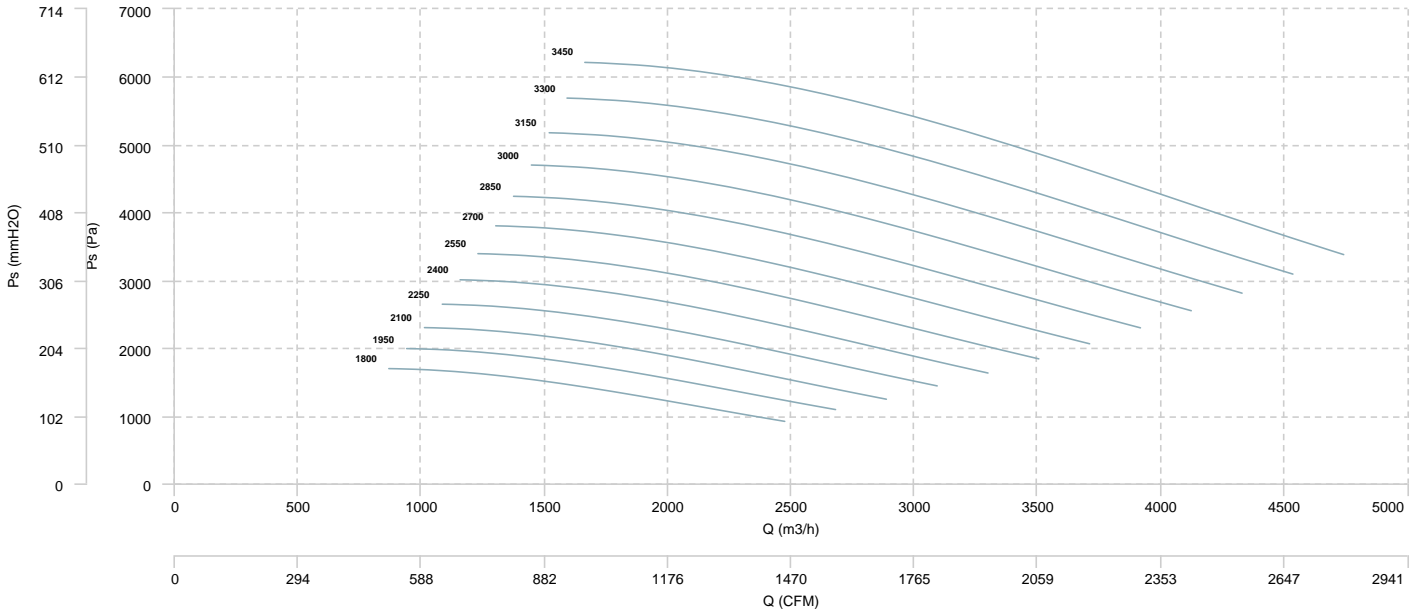


AIR FLOW - MECHANICAL POWER

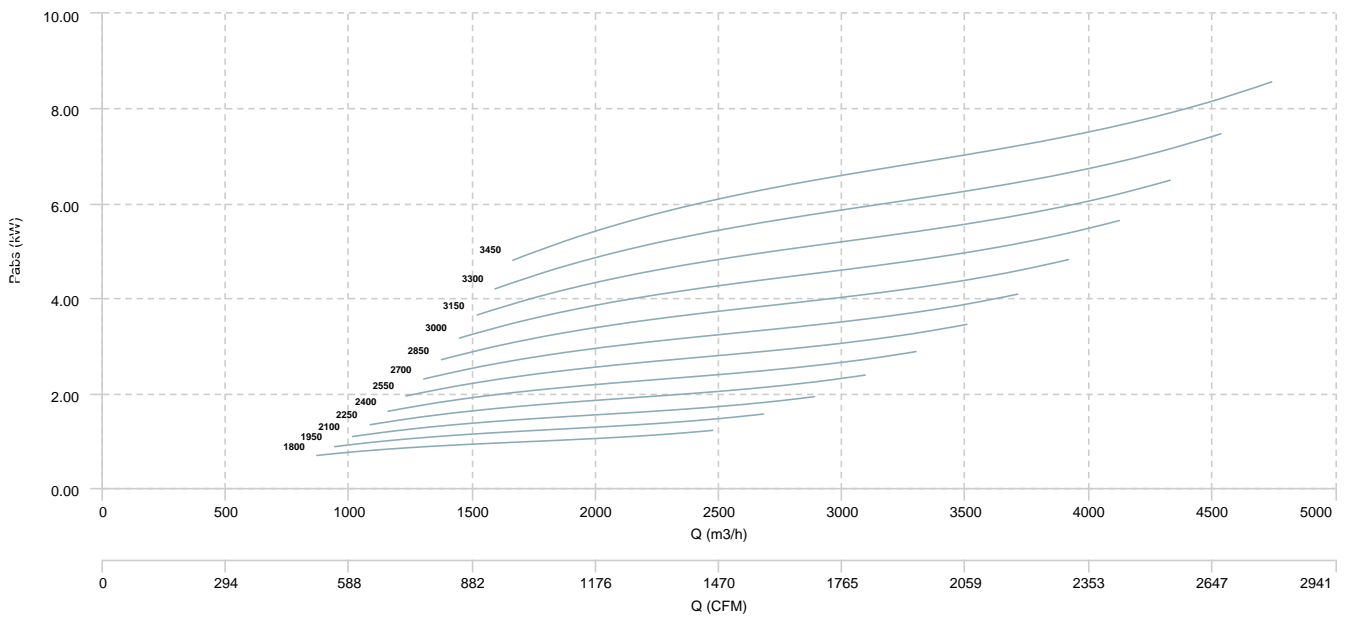


AATVM 500

AIR FLOW - PRESSURE

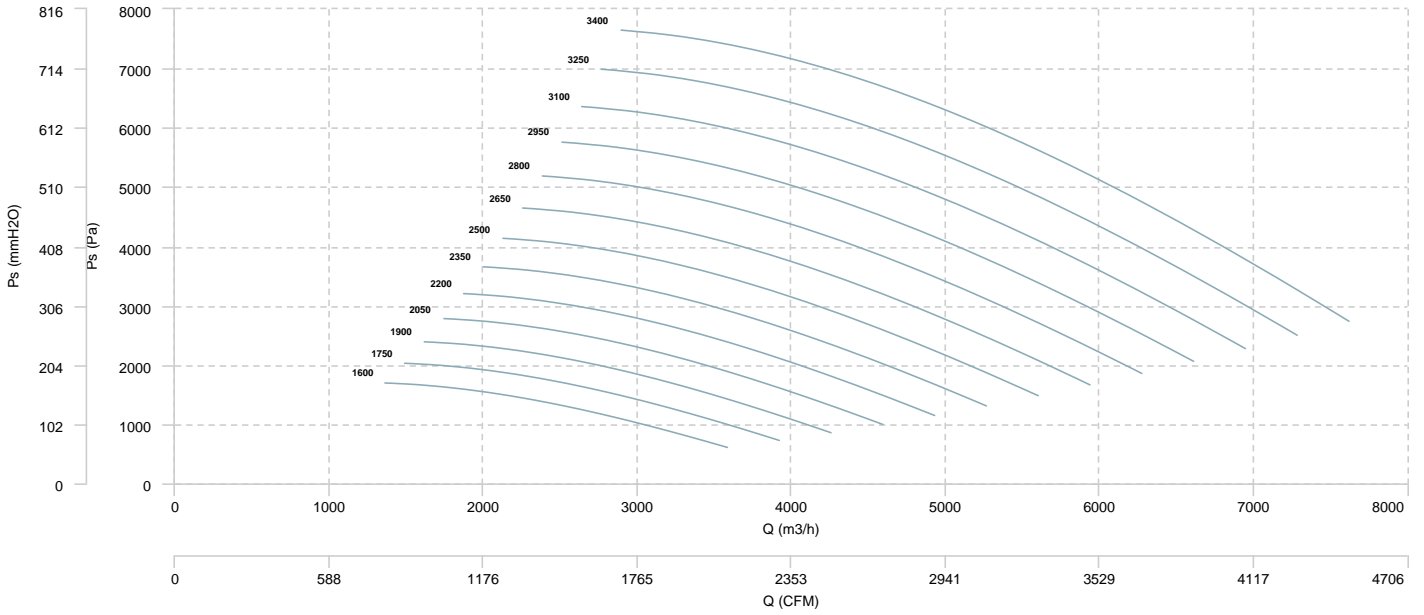


AIR FLOW - MECHANICAL POWER

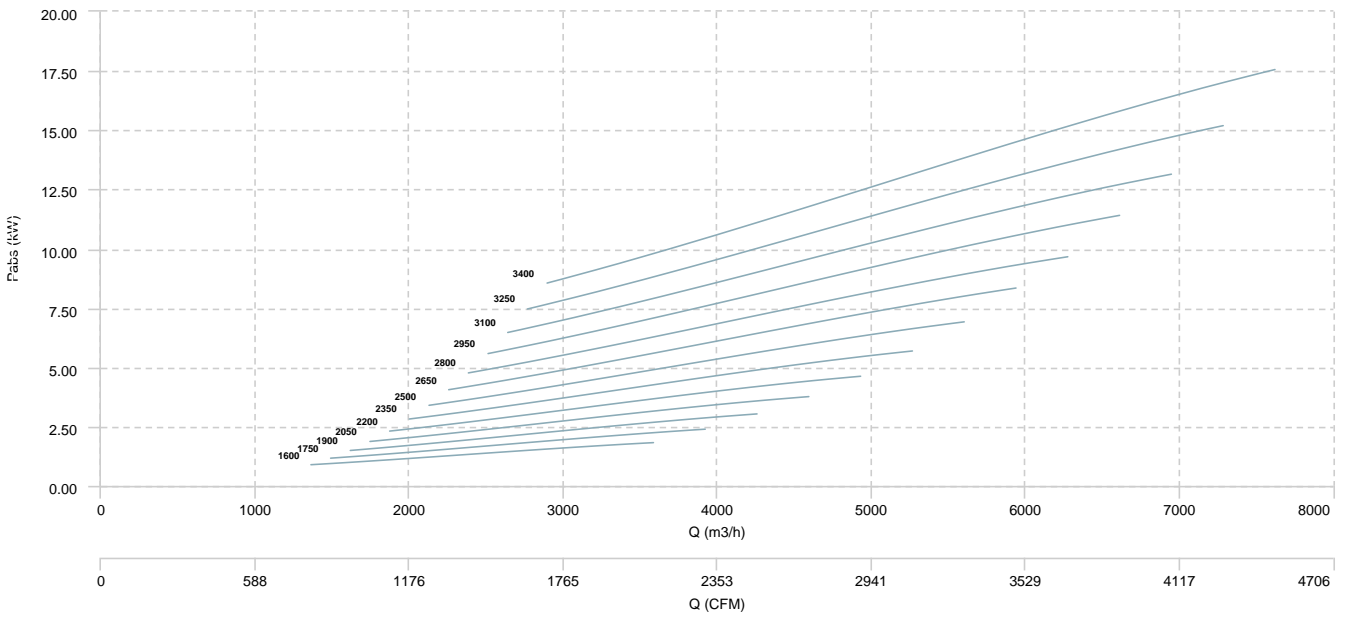


AATVM 560

AIR FLOW - PRESSURE

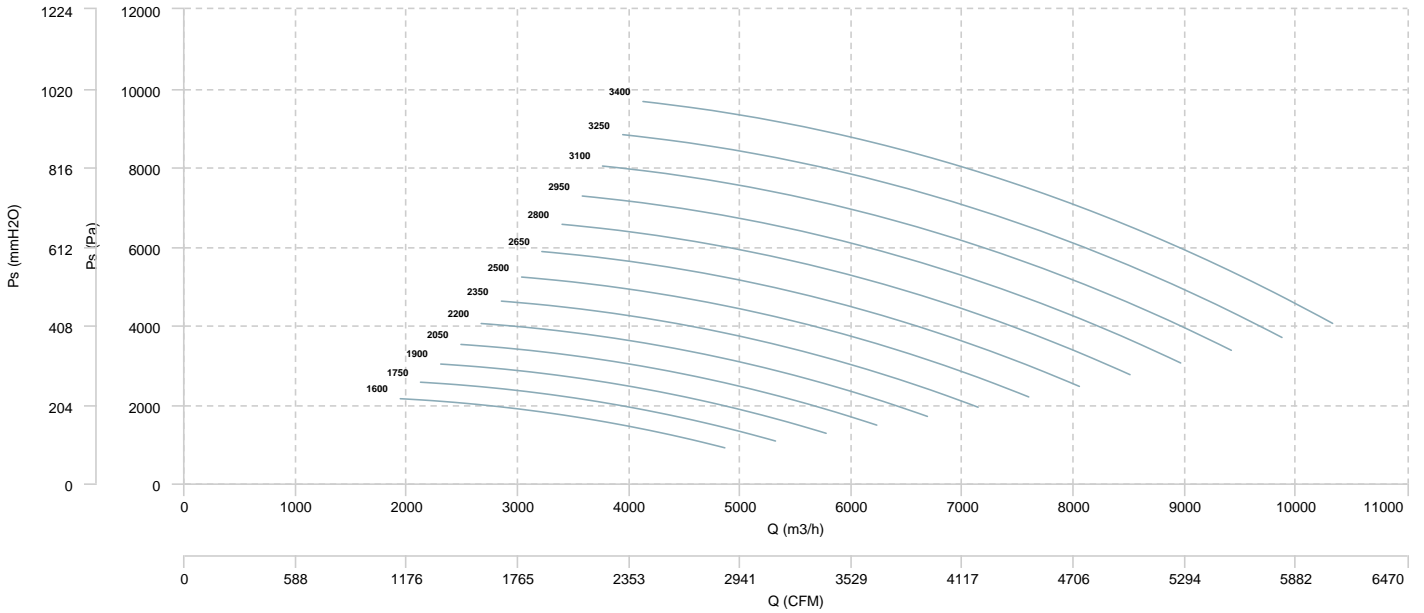


AIR FLOW - MECHANICAL POWER

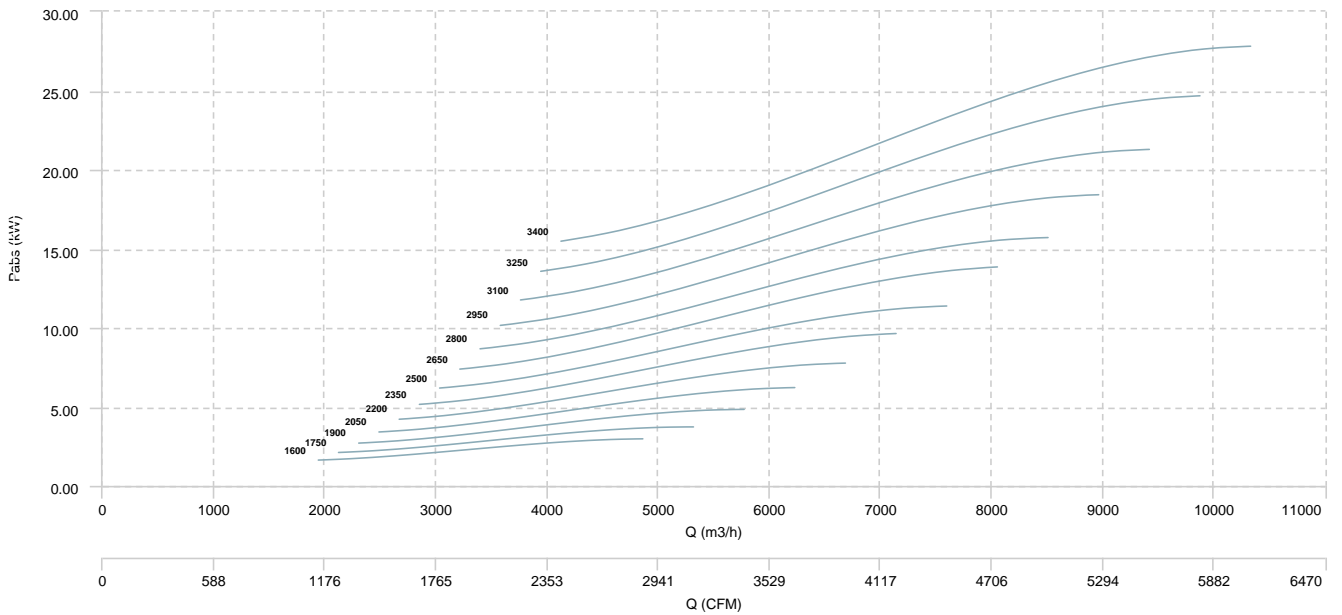


AATVM 630

AIR FLOW - PRESSURE

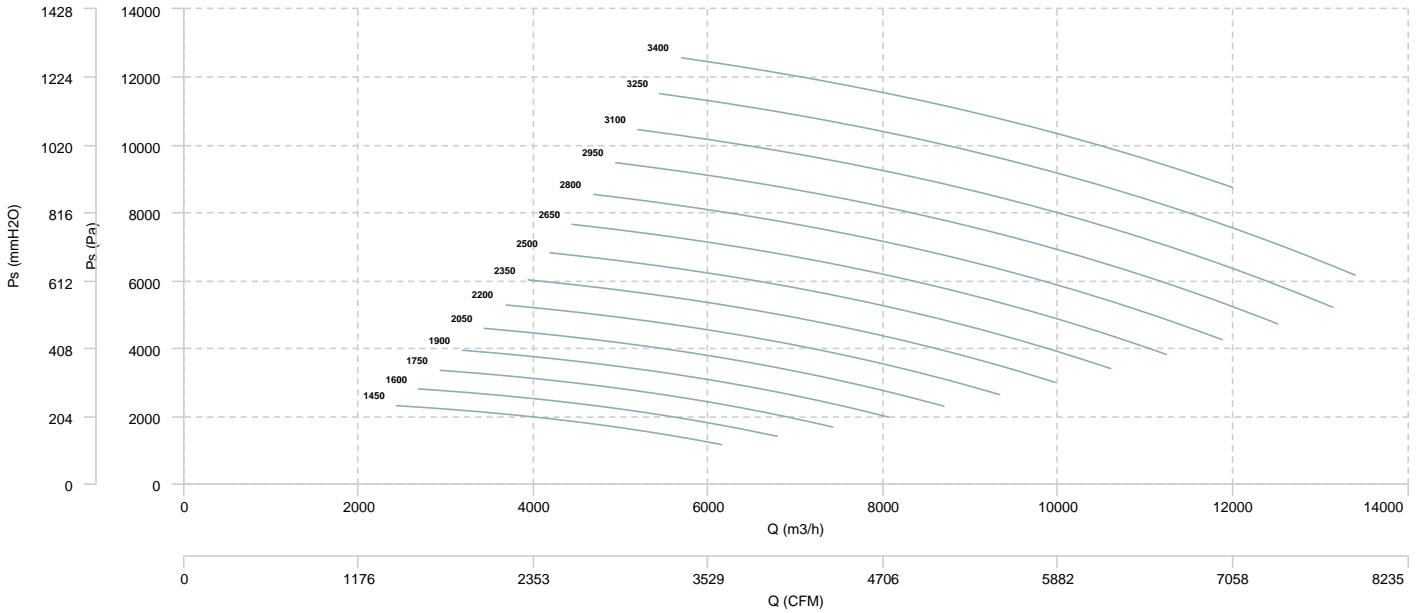


AIR FLOW - MECHANICAL POWER

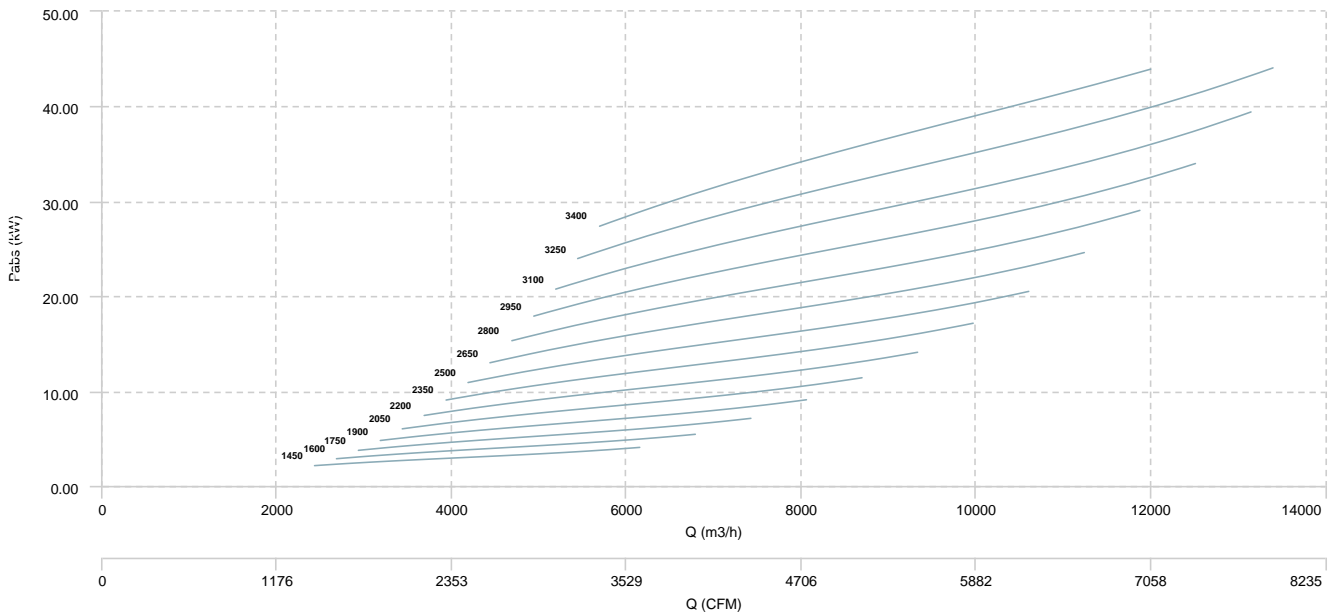


AATVM 710

AIR FLOW - PRESSURE

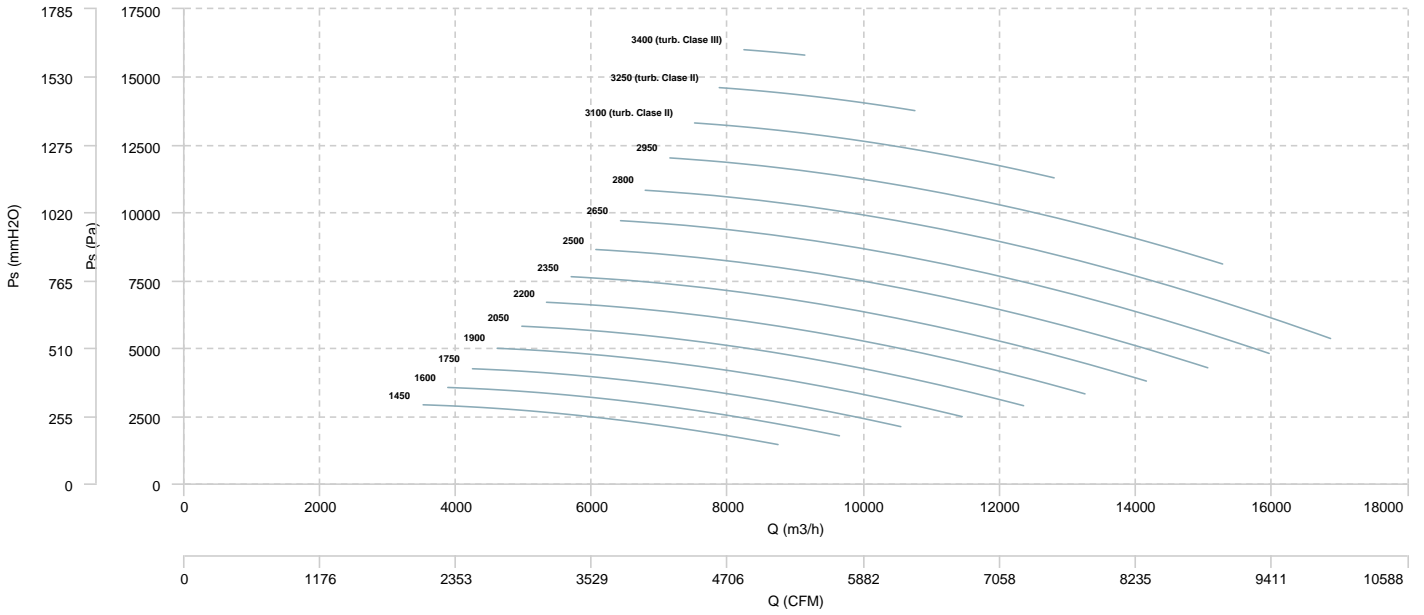


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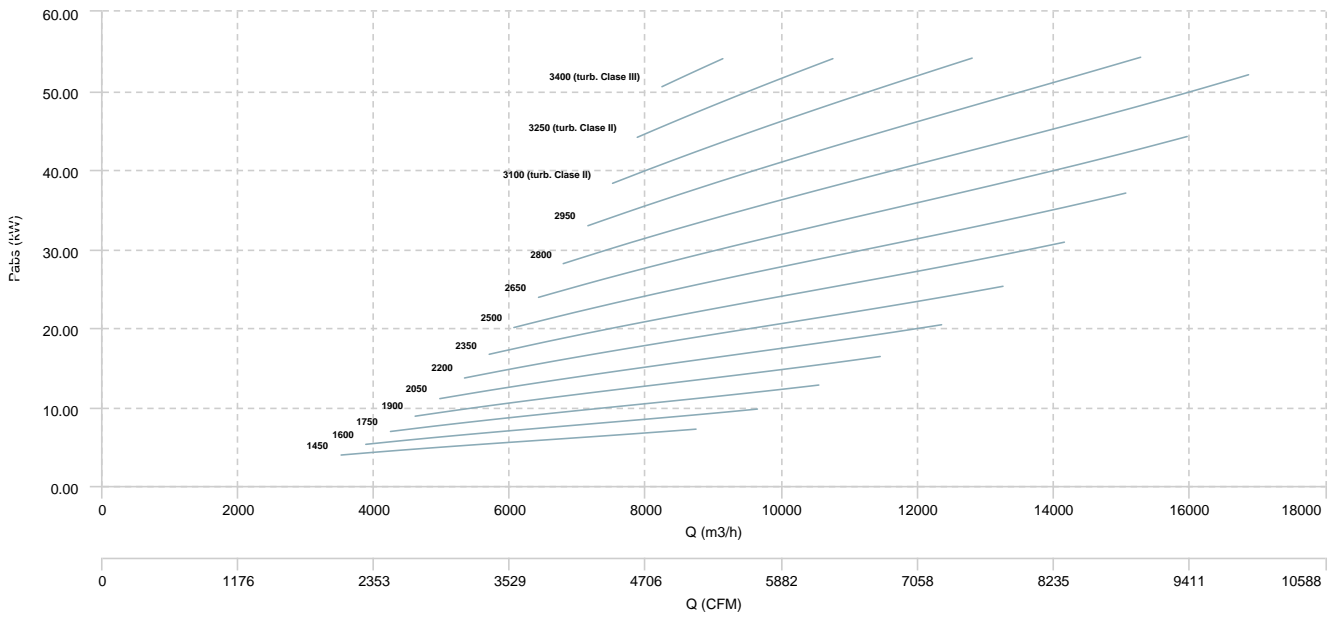


AATVM 800

AIR FLOW - PRESSURE

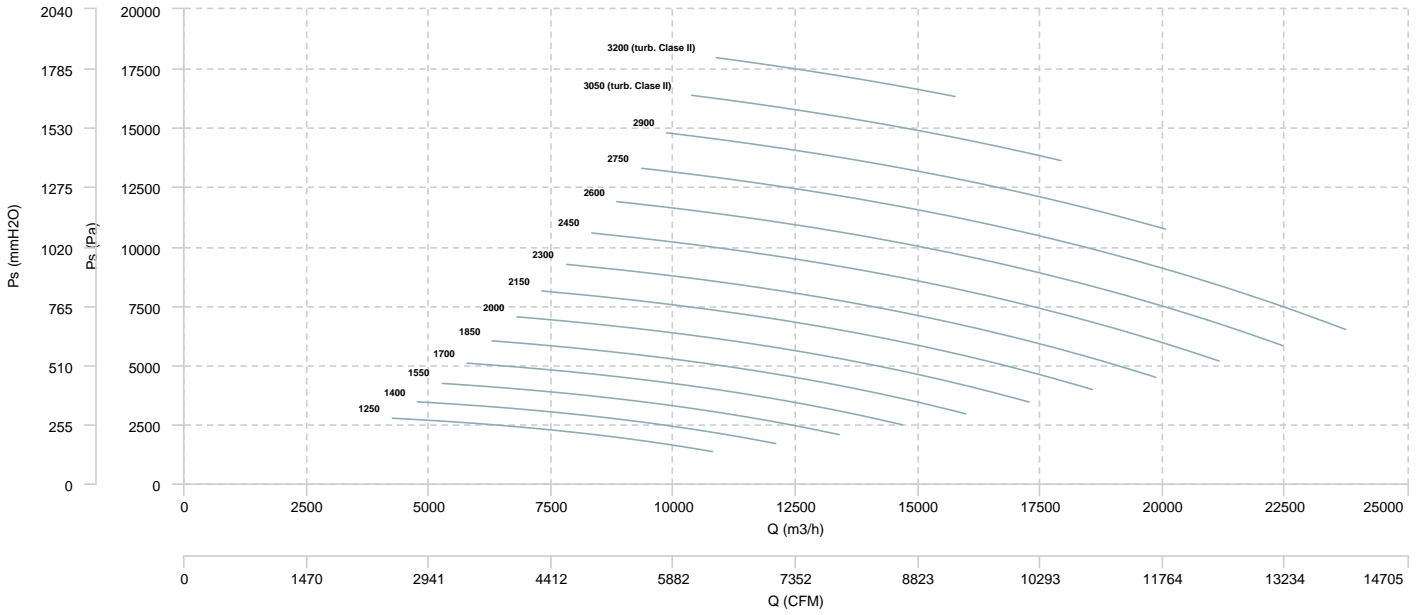


AIR FLOW - MECHANICAL POWER

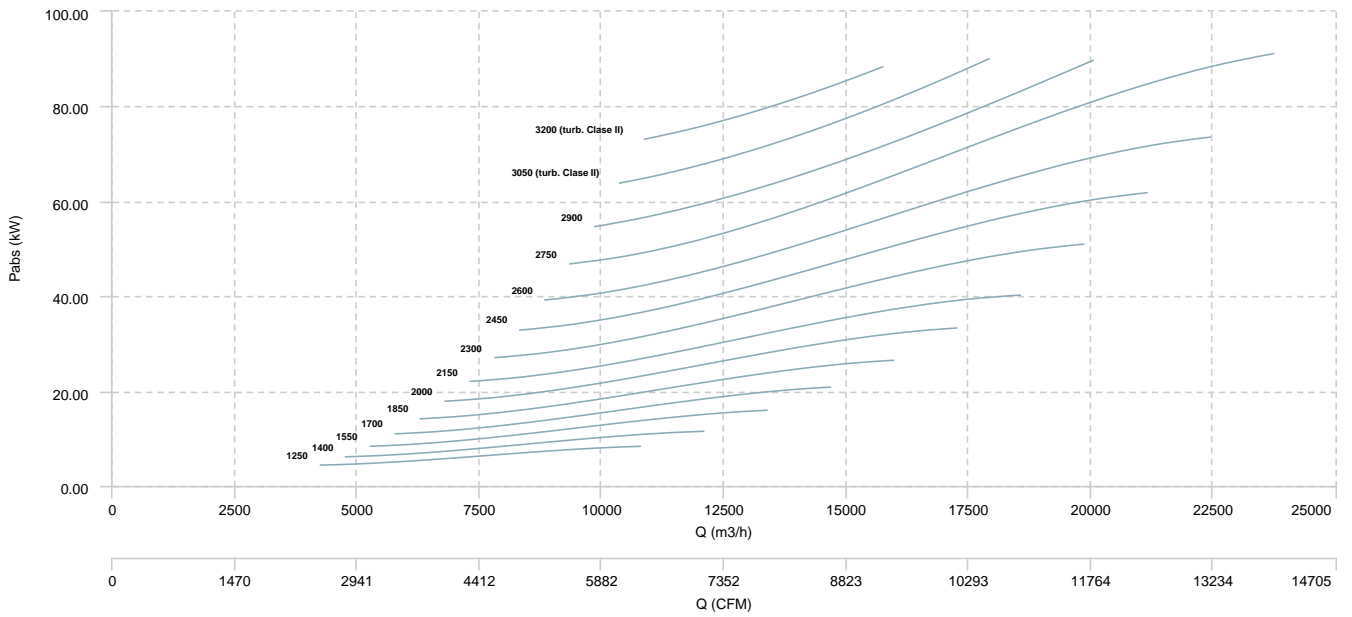


AATVM 900

AIR FLOW - PRESSURE

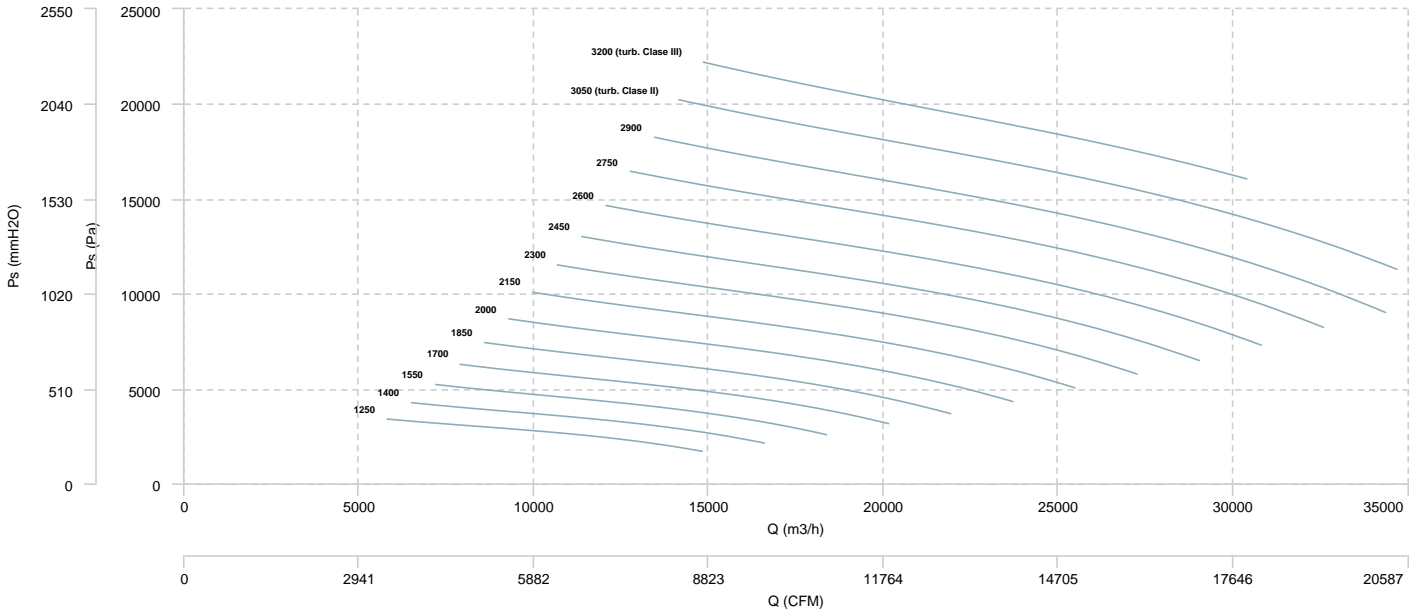


AIR FLOW - MECHANICAL POWER

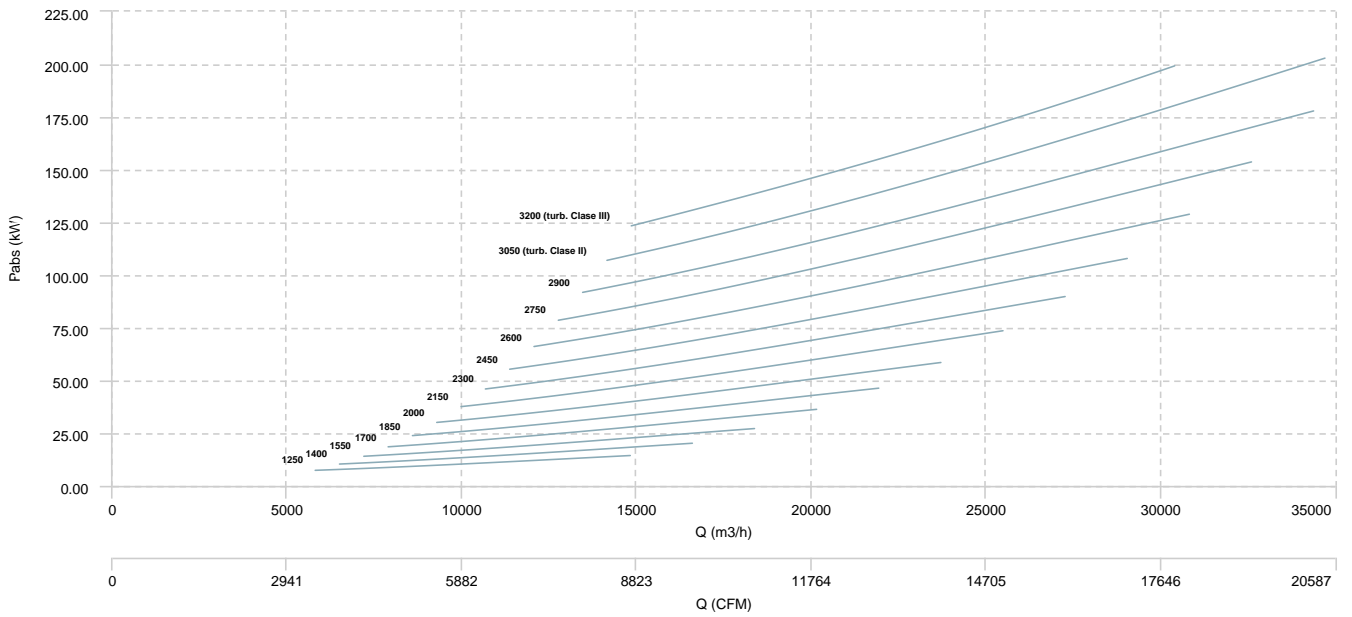


AATVM 1000

AIR FLOW - PRESSURE

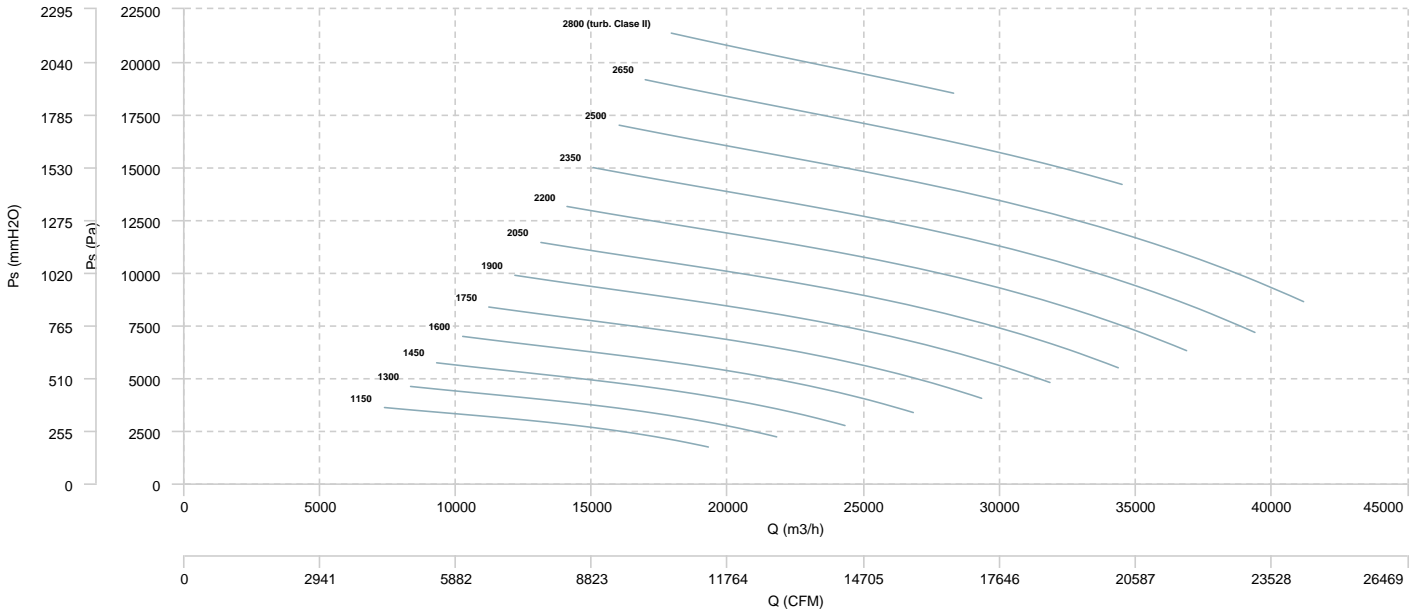


AIR FLOW - MECHANICAL POWER

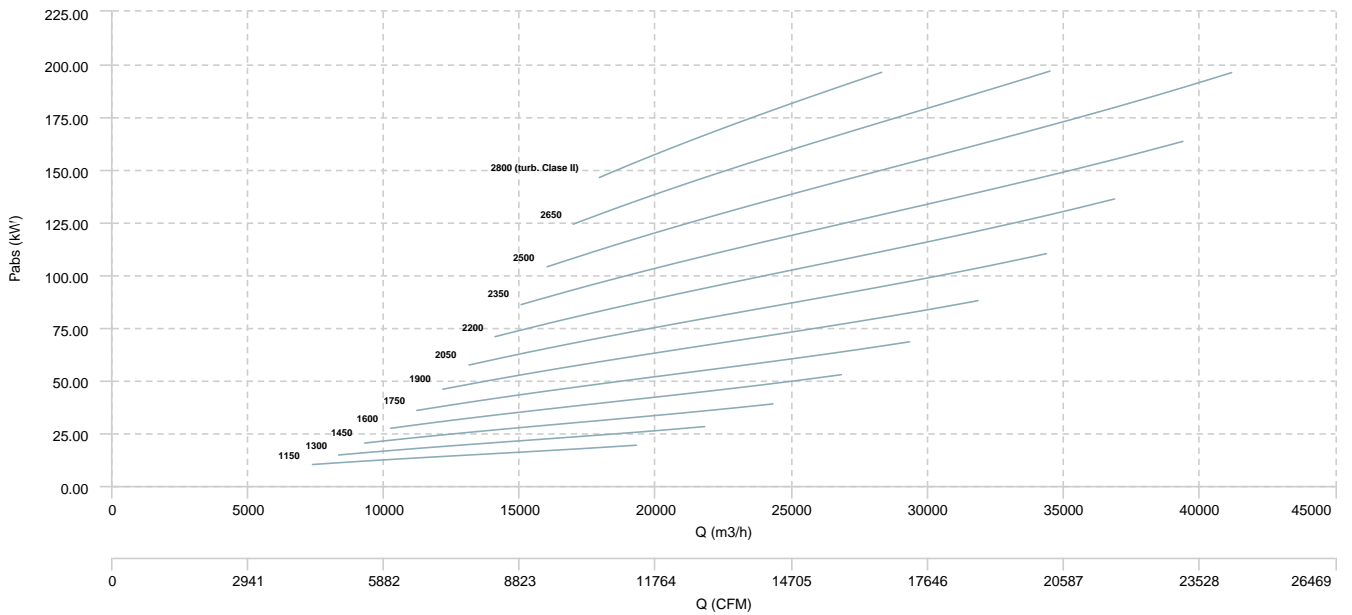


AATVM 1120

AIR FLOW - PRESSURE

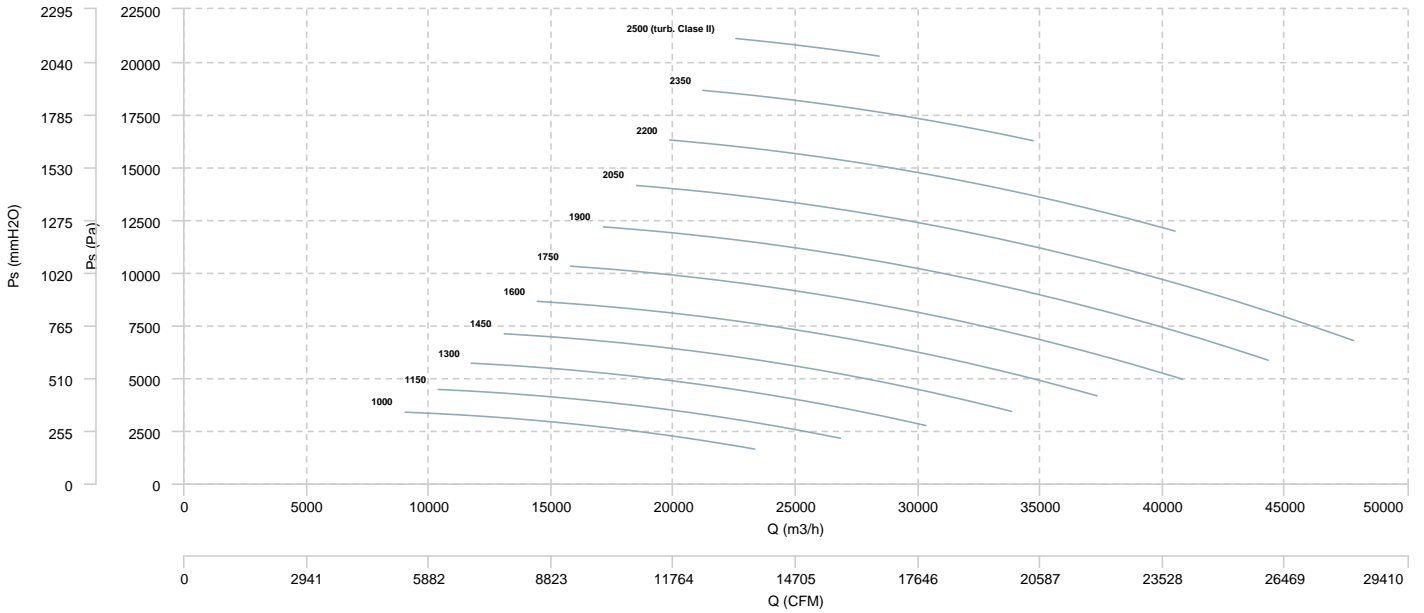


AIR FLOW - MECHANICAL POWER

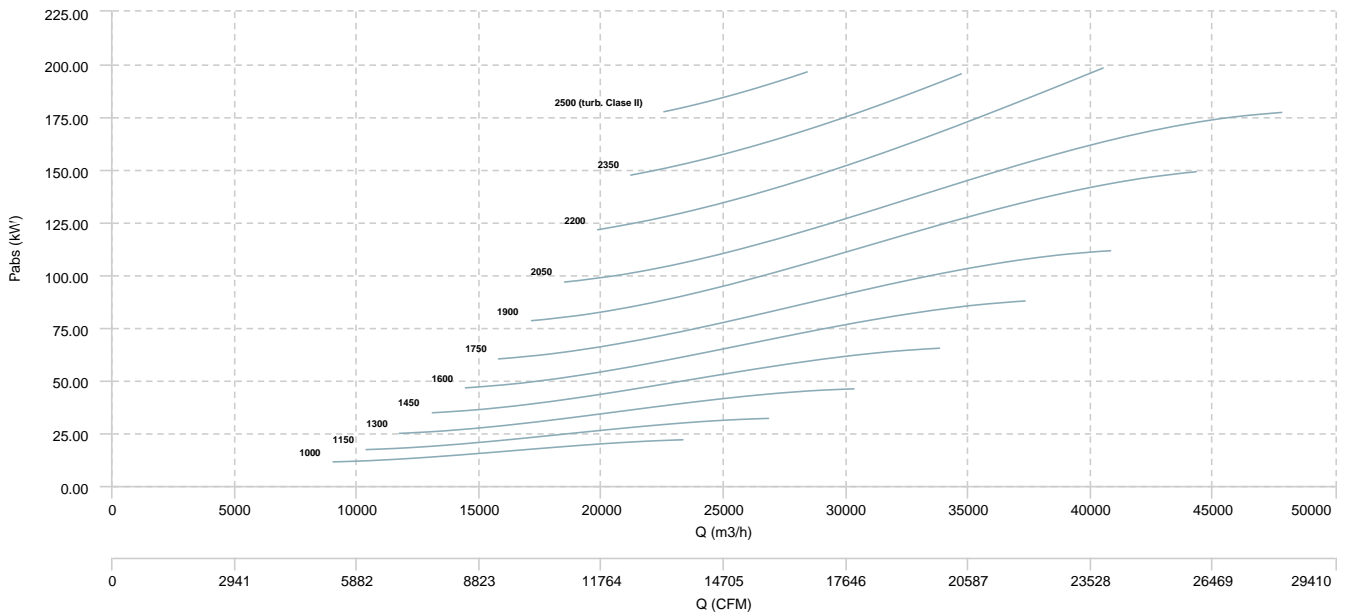


AATVM 1250

AIR FLOW - PRESSURE

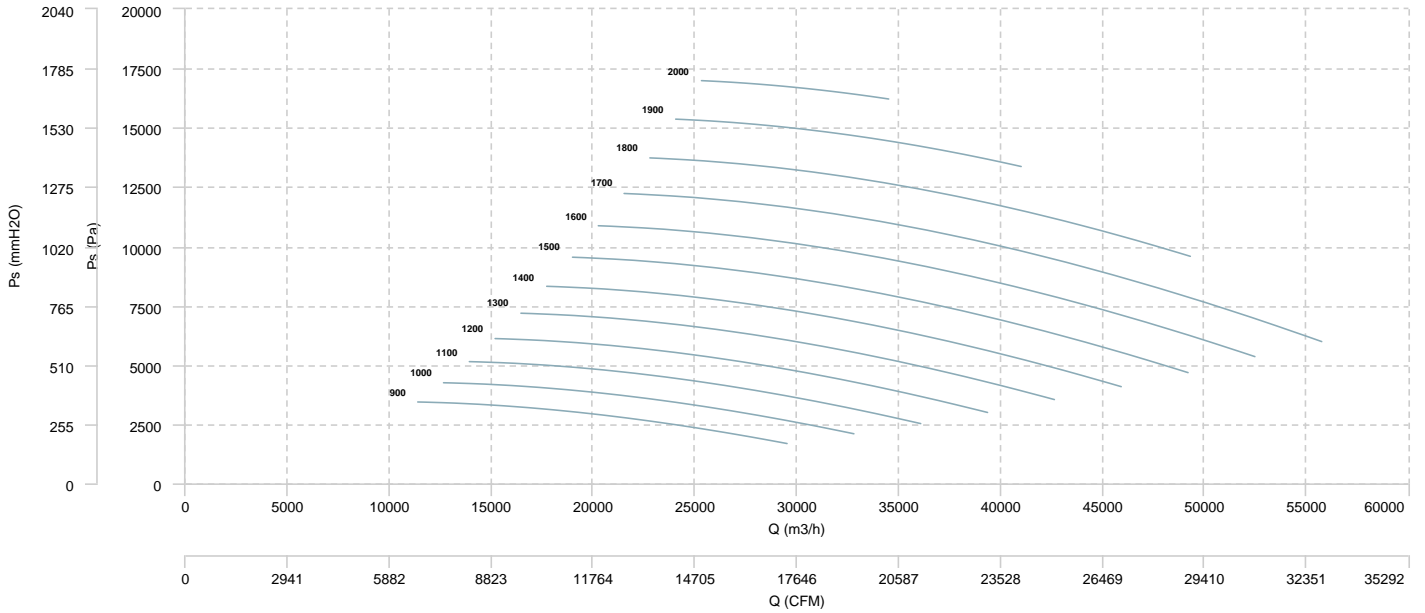


AIR FLOW - MECHANICAL POWER

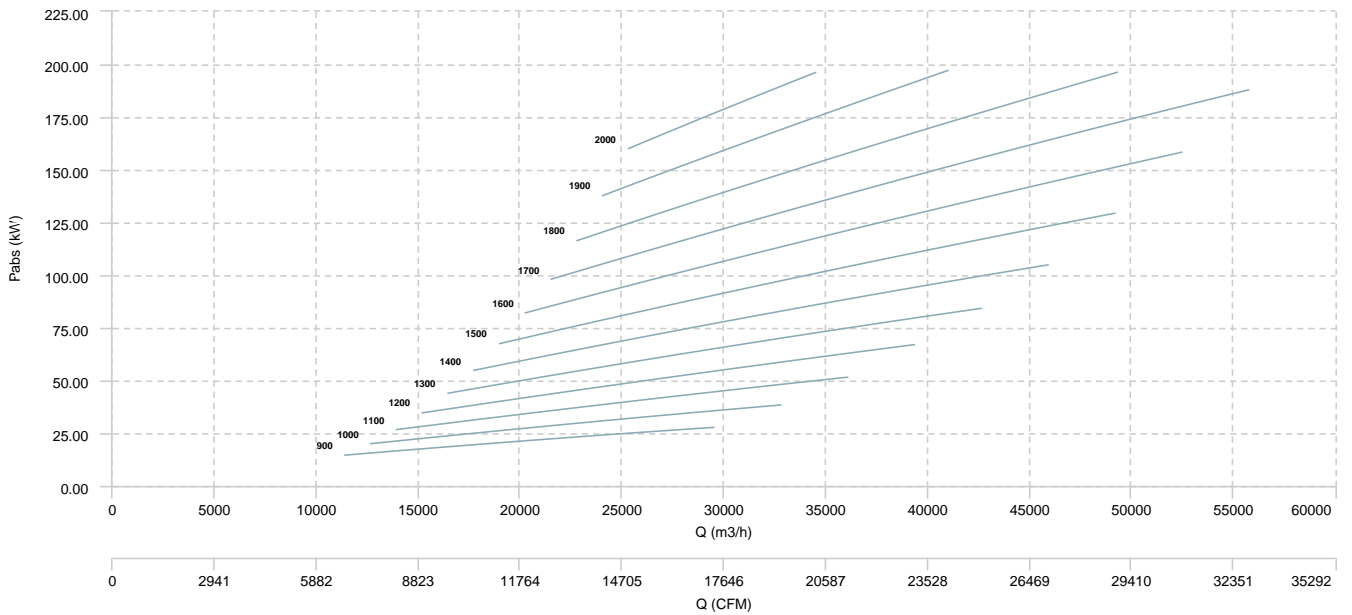


AATVM 1400

AIR FLOW - PRESSURE

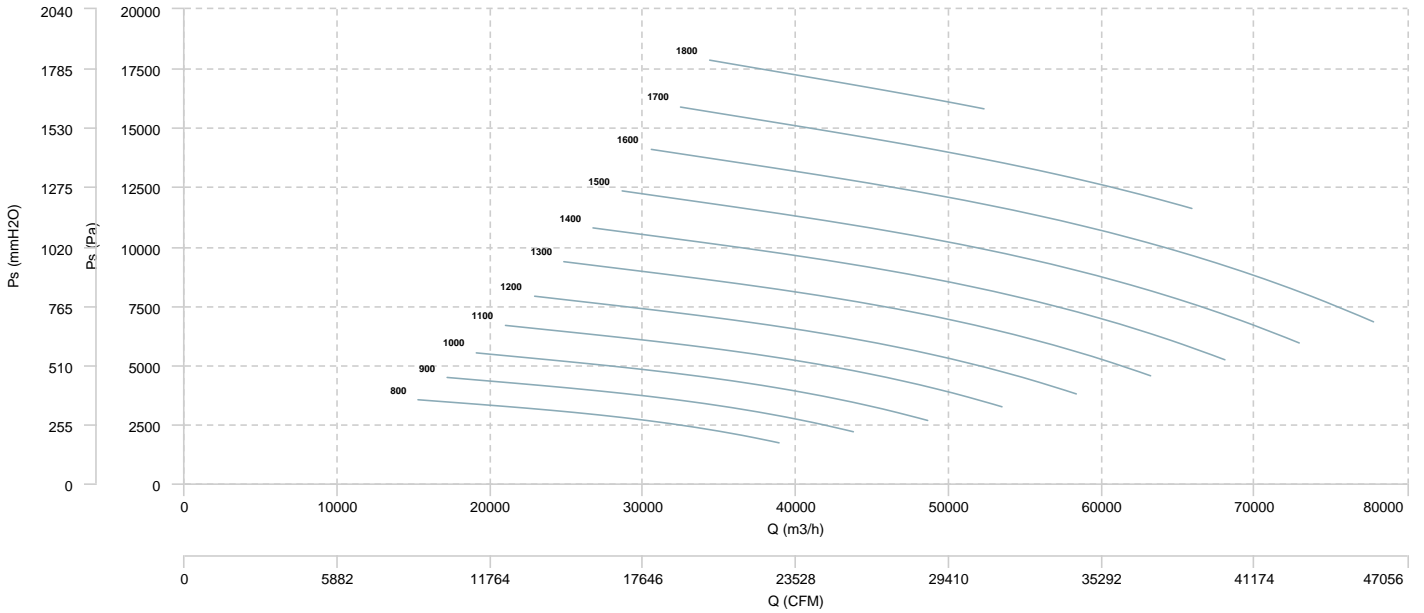


AIR FLOW - MECHANICAL POWER

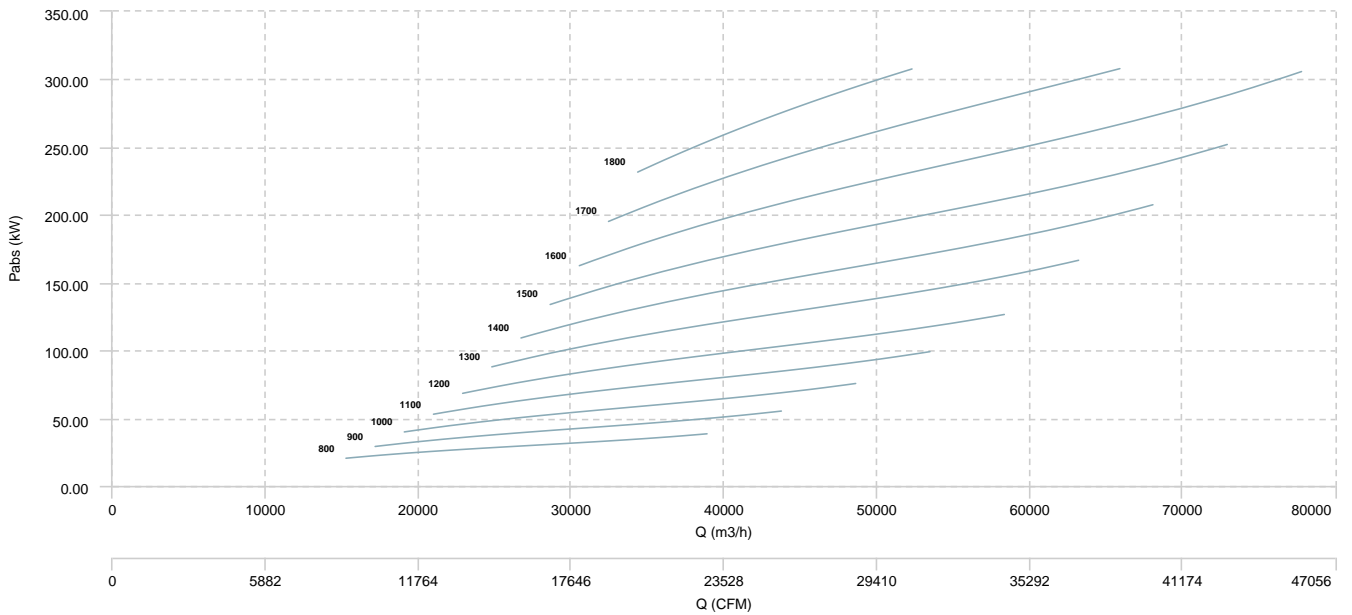


AATVM 1600

AIR FLOW - PRESSURE

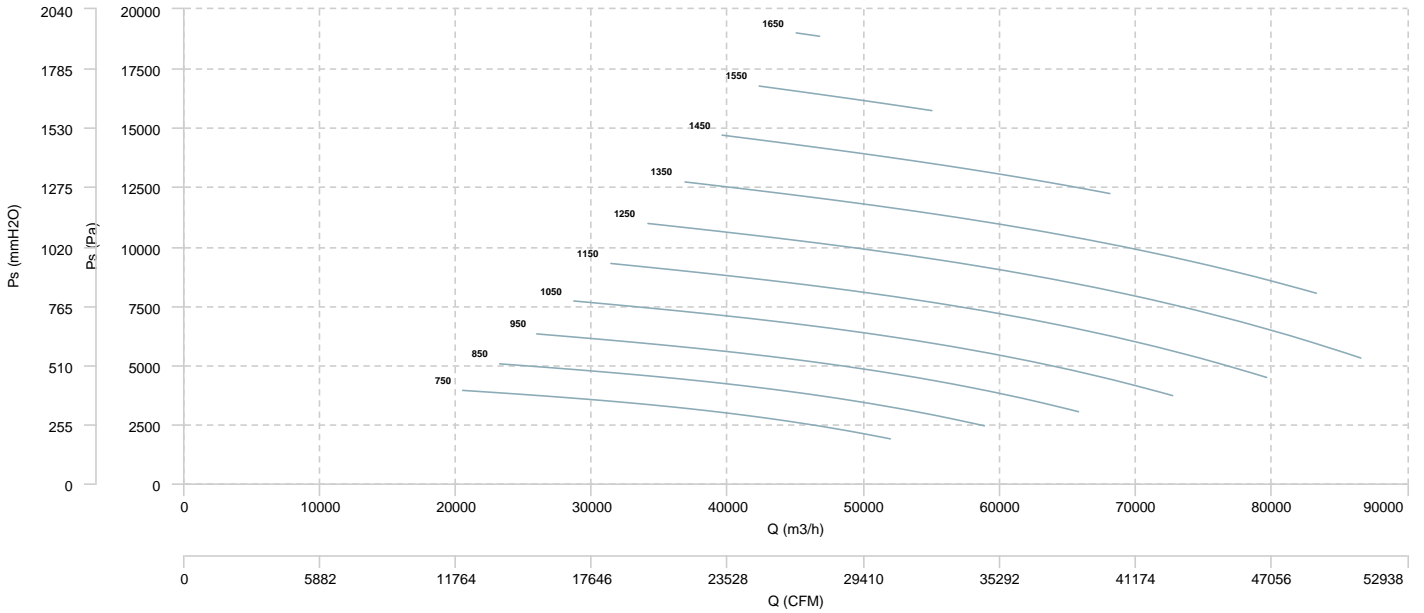


AIR FLOW - MECHANICAL POWER

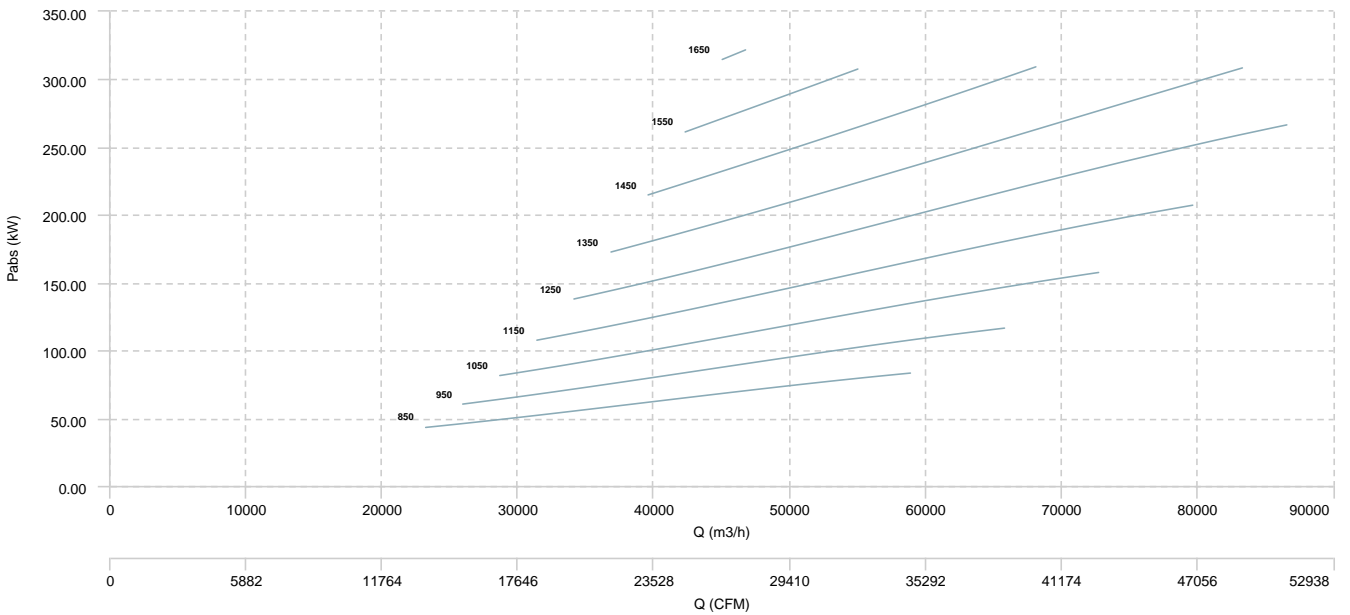


AATVM 1800

AIR FLOW - PRESSURE

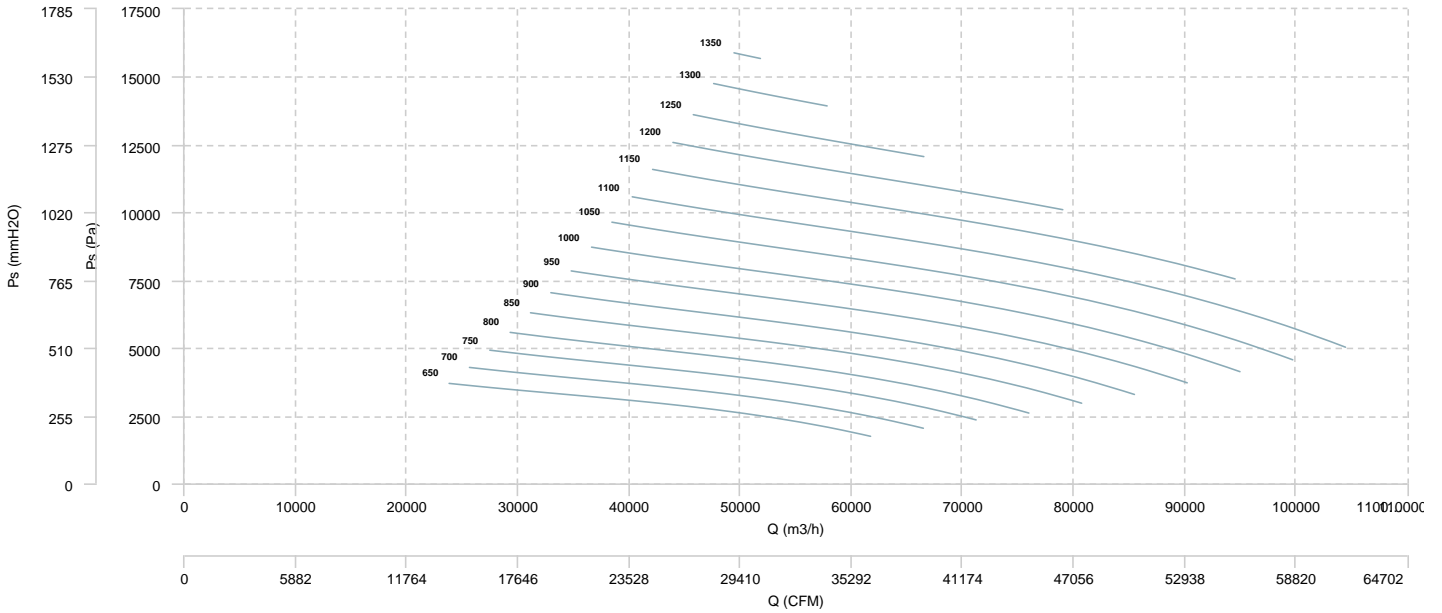


AIR FLOW - MECHANICAL POWER

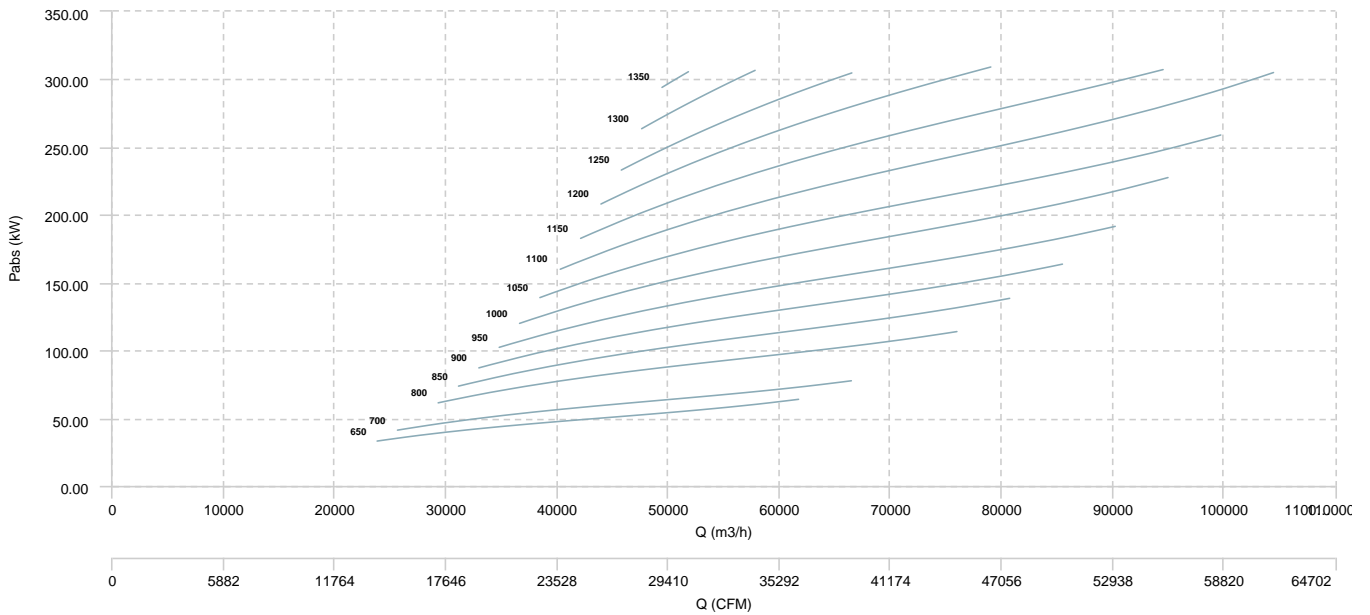


AATVM 2000

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
AATVM 350 (2000 RPM)	Inlet	46	58	64	68	69	64	58	55	73
AATVM 400 (2000 RPM)	Inlet	47	59	65	70	70	66	59	56	75
AATVM 450 (1800 RPM)	Inlet	49	61	68	72	73	68	62	59	77
AATVM 500 (1800 RPM)	Inlet	51	63	69	73	74	69	63	60	78
AATVM 560 (1600 RPM)	Inlet	53	65	72	76	77	72	66	63	81
AATVM 630 (1600 RPM)	Inlet	56	68	74	78	79	74	68	65	83
AATVM 710 (1450 RPM)	Inlet	56	68	74	78	79	75	68	65	84
AATVM 800 (1450 RPM)	Inlet	59	71	77	81	82	78	71	68	86
AATVM 900 (1250 RPM)	Inlet	57	71	77	81	82	77	71	68	86
AATVM 1000 (1250 RPM)	Inlet	61	73	80	84	85	80	73	70	89
AATVM 1120 (1150 RPM)	Inlet	64	76	82	86	87	82	76	73	91
AATVM 1250 (1000 RPM)	Inlet	64	76	82	86	87	82	76	73	91
AATVM 1400 (900 RPM)	Inlet	64	76	82	86	87	83	76	73	91
AATVM 1600 (800 RPM)	Inlet	65	77	83	87	88	84	77	74	92
AATVM 1800 (750 RPM)	Inlet	67	79	85	89	90	85	79	76	94
AATVM 2000 (650 RPM)	Inlet	66	78	85	89	90	85	79	76	94

Notes:

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

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