

AATVC 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.

Accessories



AB



AC



AVR



AVS



BA-400



**BADS
ATEX**



**BIDS
ATEX**



EI



FS



**INT
ATEX**



JE 45



RI



SFC

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.
- 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

Technical data

Three-phase motor

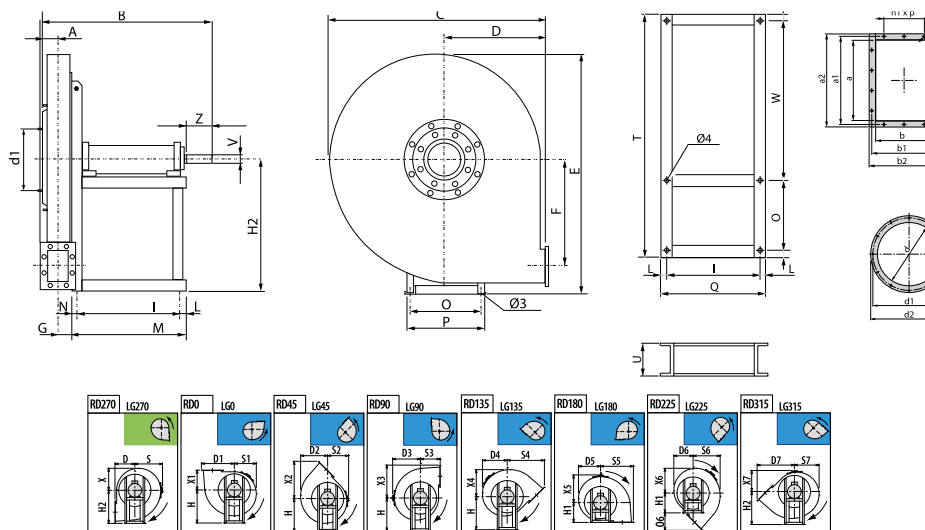
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	AATVC 500 ATEX	1800rpm - 3500rpm	0,37	5,50	980	58	63	1
	AATVC 560 ATEX	1600rpm - 3500rpm	0,55	5,50	1.400	61	79	1
	AATVC 630 ATEX	1700rpm - 3500rpm	1,10	11,00	1.850	64	131	1
	AATVC 710 ATEX	1400rpm - 3500rpm	2,20	15,00	2.490	66	181	1
	AATVC 800 ATEX	1450rpm - 3500rpm	3,00	22,00	3.460	68	199	1
	AATVC 900 ATEX	1350rpm - 3200rpm	5,50	37,00	4.680	69	310	1
	AATVC 1000 ATEX	1250rpm - 3200rpm	11,00	55,00	6.330	72	452	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 ATEX	45	668	745	335	386	386	410	370	346
AATVC 560 ATEX	50	678	835	375	482	438	460	418	391
AATVC 630 ATEX	58	708	940	425	539	493	515	472	441

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

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

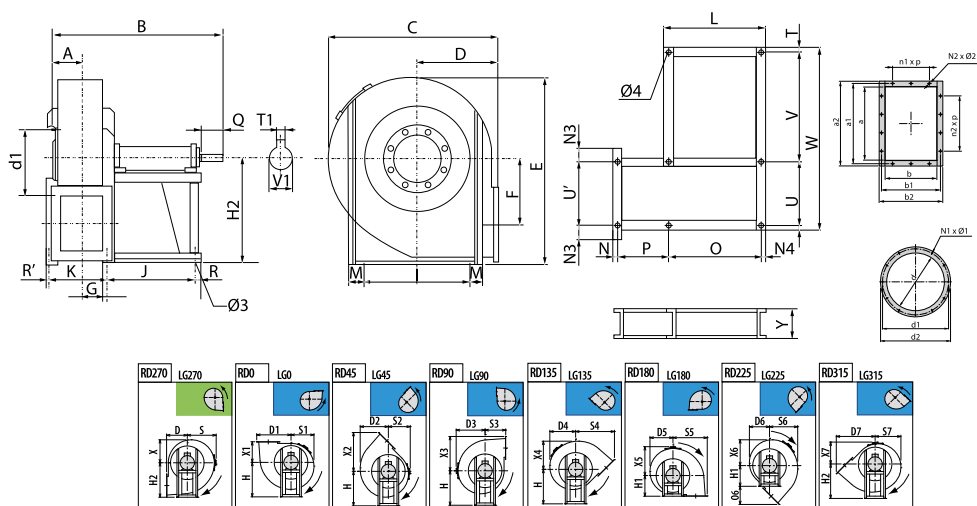
Model	S	S1	S2	S3	S4	S5	S6	S7	T
AATVC 500 ATEX	410	346	350	335	541	430	386	370	1060
AATVC 560 ATEX	460	391	392	375	606	482	438	418	1180
AATVC 630 ATEX	515	441	438	425	681	539	493	472	1180

Model	U	V	W	X	X1	X2	X3	X4	X5
AATVC 500 ATEX	120	28	660	346	335	541	430	386	410
AATVC 560 ATEX	120	28	780	391	375	606	482	438	460

Model	U	V	W	X	X1	X2	X3	X4	X5
AATVC 630 ATEX	120	38	780	441	425	681	539	493	515

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

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



Model	A	B	C	D	D1	D2	D3	D4	D5
AATVC 710 ATEX	67	825	1045	475	605	547	570	522	493
AATVC 800 ATEX	73	860	1170	530	678	622	640	592	554
AATVC 900 ATEX	84	880	1315	600	759	696	715	668	628
AATVC 1000 ATEX	90	1005	1460	670	846	775	790	735	690

Model	D6	D7	E	F	G	H	H1	H2	I
AATVC 710 ATEX	489	764	1123	497	115,5	630	630	550	485
AATVC 800 ATEX	545	854	1264	560	121,5	710	710	620	485
AATVC 900 ATEX	617	961	1428	631	129,5	800	800	695	485
AATVC 1000 ATEX	670	1074	1590	707	165,5	900	900	770	762

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

Model	O	P	Q	R	R'	S	S1	S2	S3
AATVC 710 ATEX	289	191	110	33	20	570	493	489	475
AATVC 800 ATEX	477	203	110	33	20	640	554	545	530
AATVC 900 ATEX	361	219	110	33	20	715	628	617	600
AATVC 1000 ATEX	174	261	110	39	35	790	690	670	670

Model	S4	S5	S6	S7	T	T1	U	U'	V
AATVC 710 ATEX	764	605	547	522	23	12	485	400	720
AATVC 800 ATEX	854	678	622	592	23	12	485	410	970
AATVC 900 ATEX	961	759	696	668	23	14	485	420	970
AATVC 1000 ATEX	1074	846	775	735	32	14	762	450	974

Model	V1	W	X	X1	X2	X3	X4	X5	X6
AATVC 710 ATEX	42	1250	493	475	764	605	547	570	522
AATVC 800 ATEX	42	1500	554	530	854	678	622	640	592
AATVC 900 ATEX	48	1500	628	600	961	759	696	715	668
AATVC 1000 ATEX	48	1800	690	670	1074	846	775	790	735

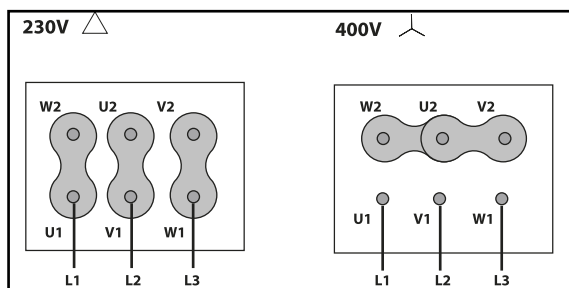
Model	X7	Y	a	a1	a2	b	b1	b2	d
AATVC 710 ATEX	489	160	146	182	216	105	139	175	205
AATVC 800 ATEX	545	160	166	200	236	117	151	187	228
AATVC 900 ATEX	617	160	185	219	255	131	165	201	255
AATVC 1000 ATEX	670	180	207	241	277	148	182	218	285

Model	d1	d2	n1xp	n2xp	Ø3	Ø4
AATVC 710 ATEX	241	275	-	1x112	19	19
AATVC 800 ATEX	265	298	-	1x112	19	19
AATVC 900 ATEX	292	325	-	1x112	19	19
AATVC 1000 ATEX	332	365	1x112	1x112	24	20

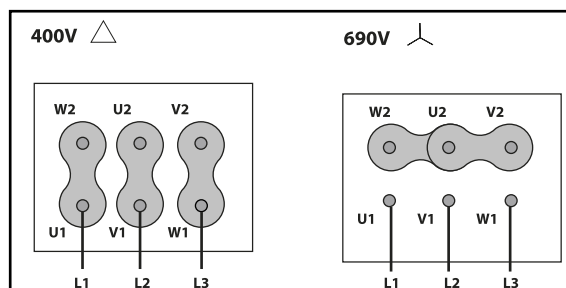
Wiring diagram

Wiring diagram N° 1

230/400V



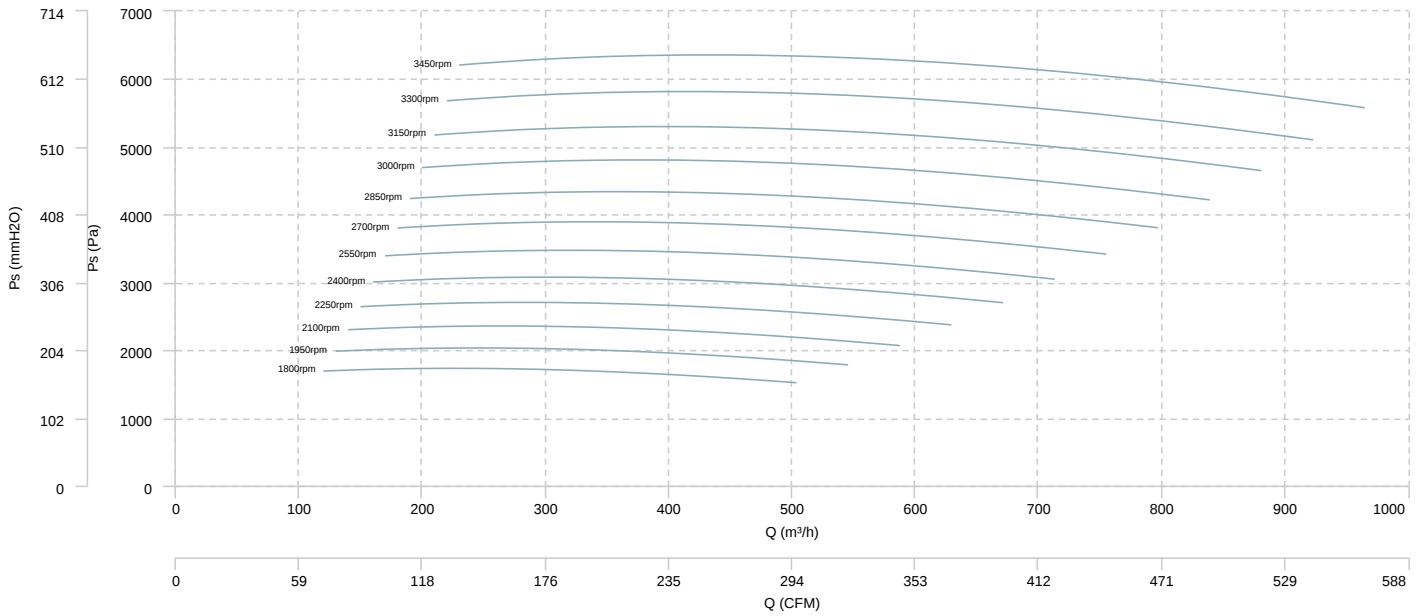
400/690V



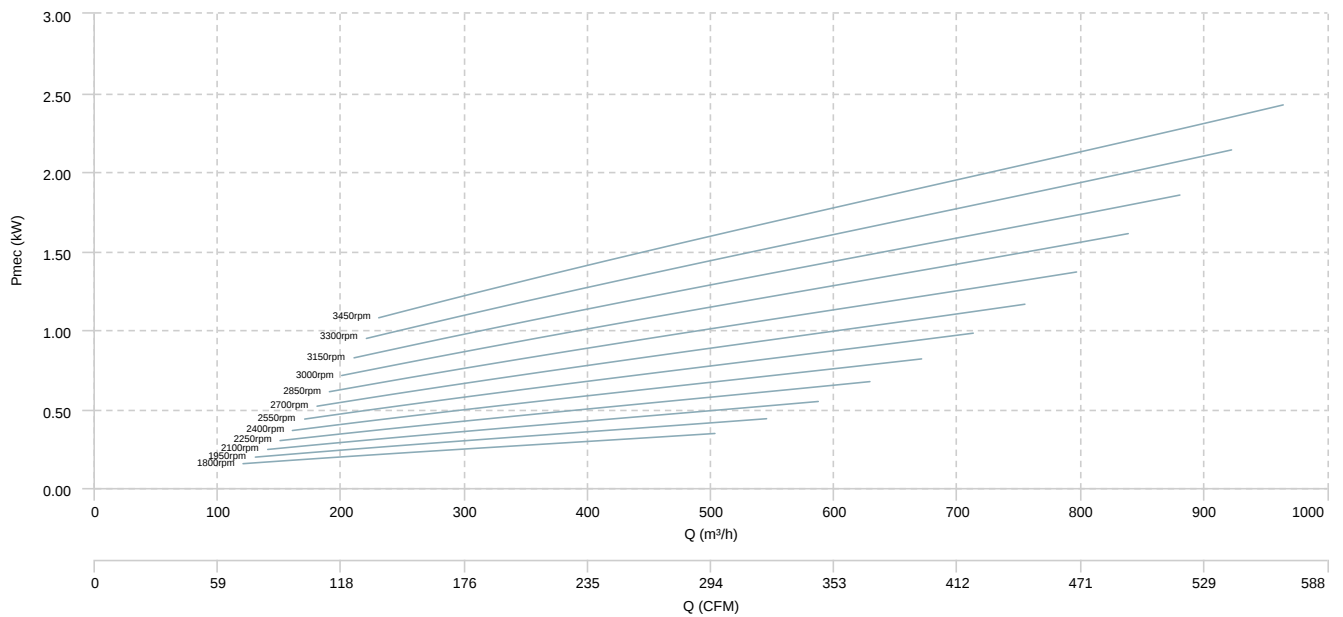
CHARACTERISCTIC CURVE

AATVC 500 ATEX

AIR FLOW - PRESSURE

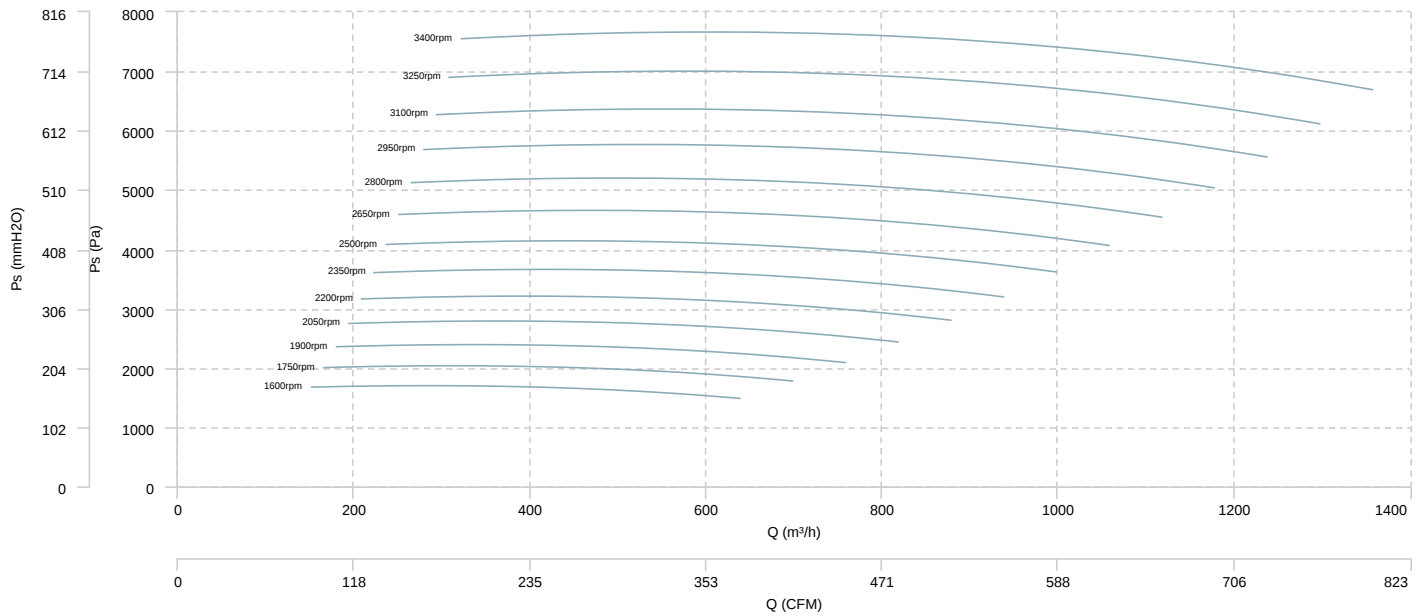


AIR FLOW - MECHANICAL POWER

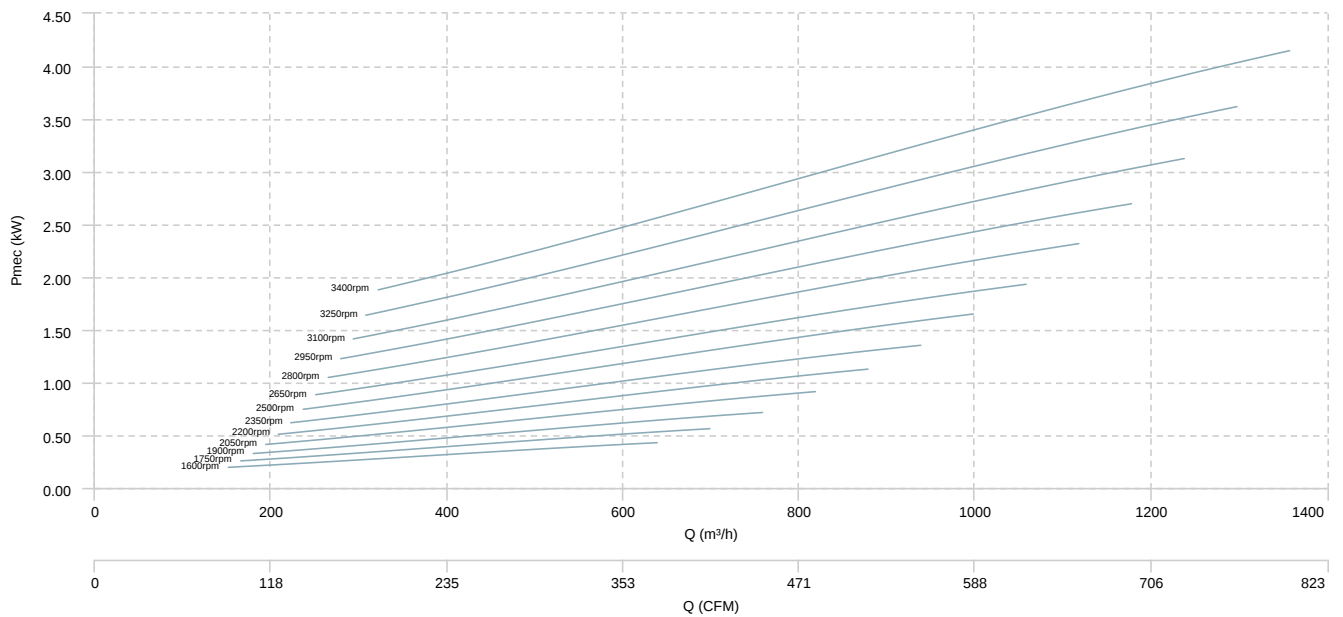


AATVC 560 ATEX

AIR FLOW - PRESSURE

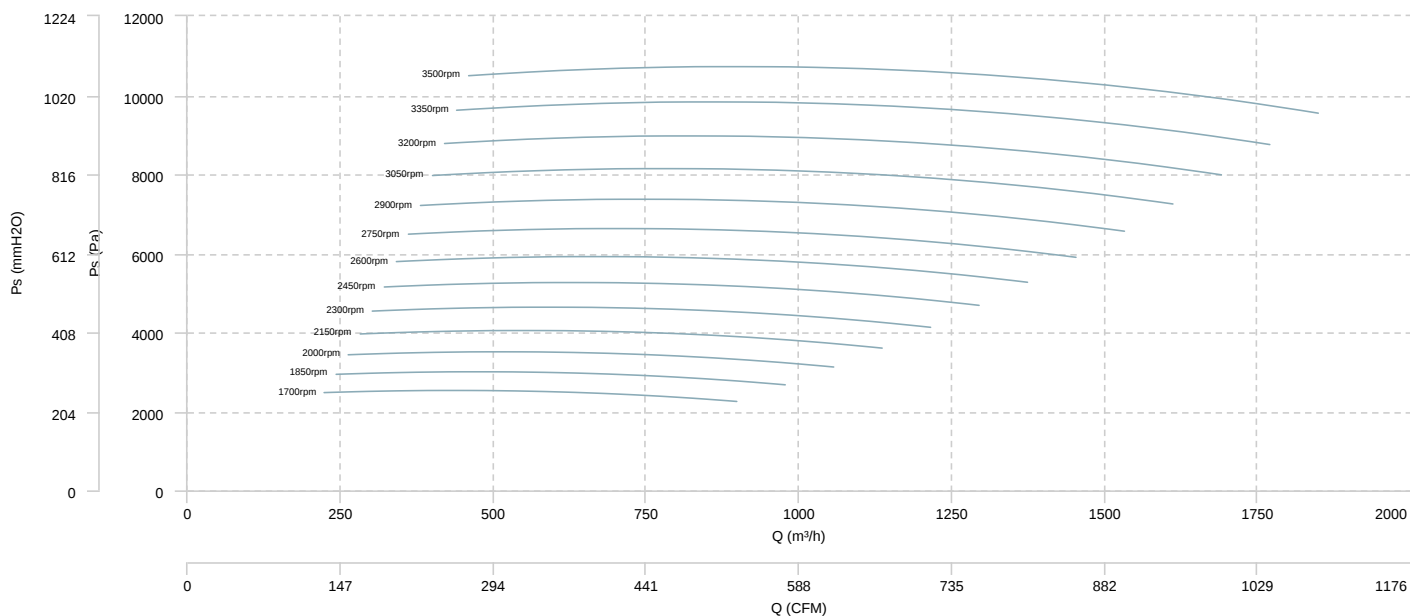


AIR FLOW - MECHANICAL POWER

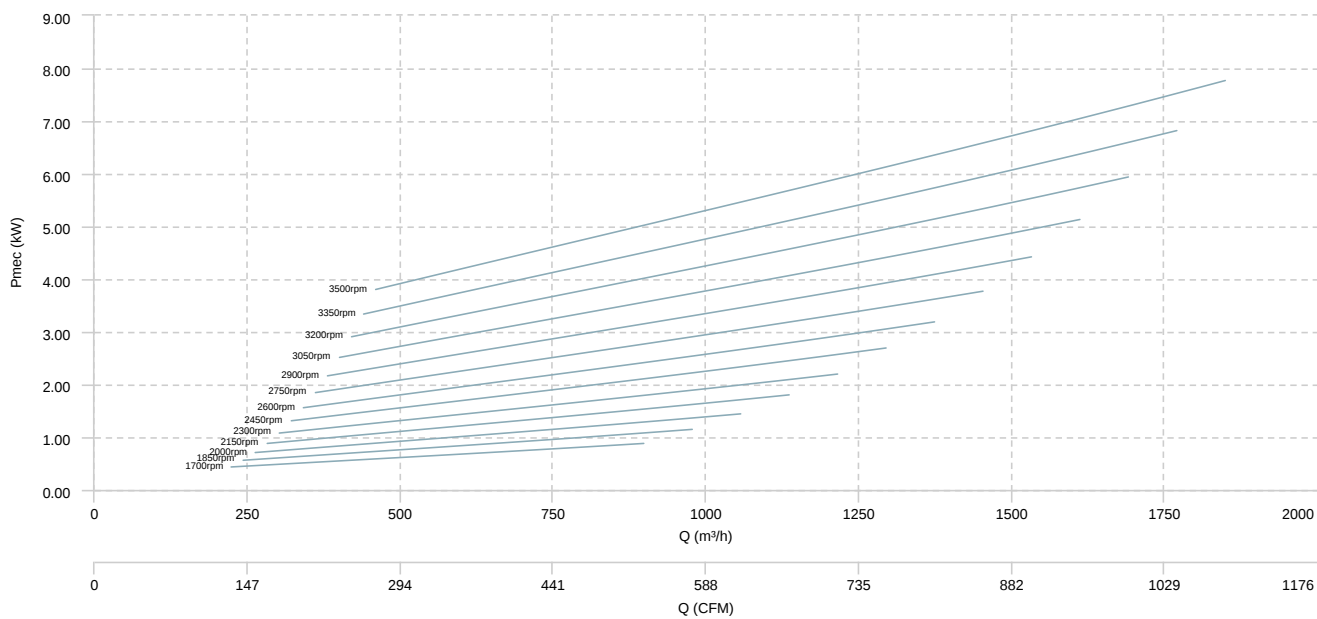


AATVC 630 ATEX

AIR FLOW - PRESSURE

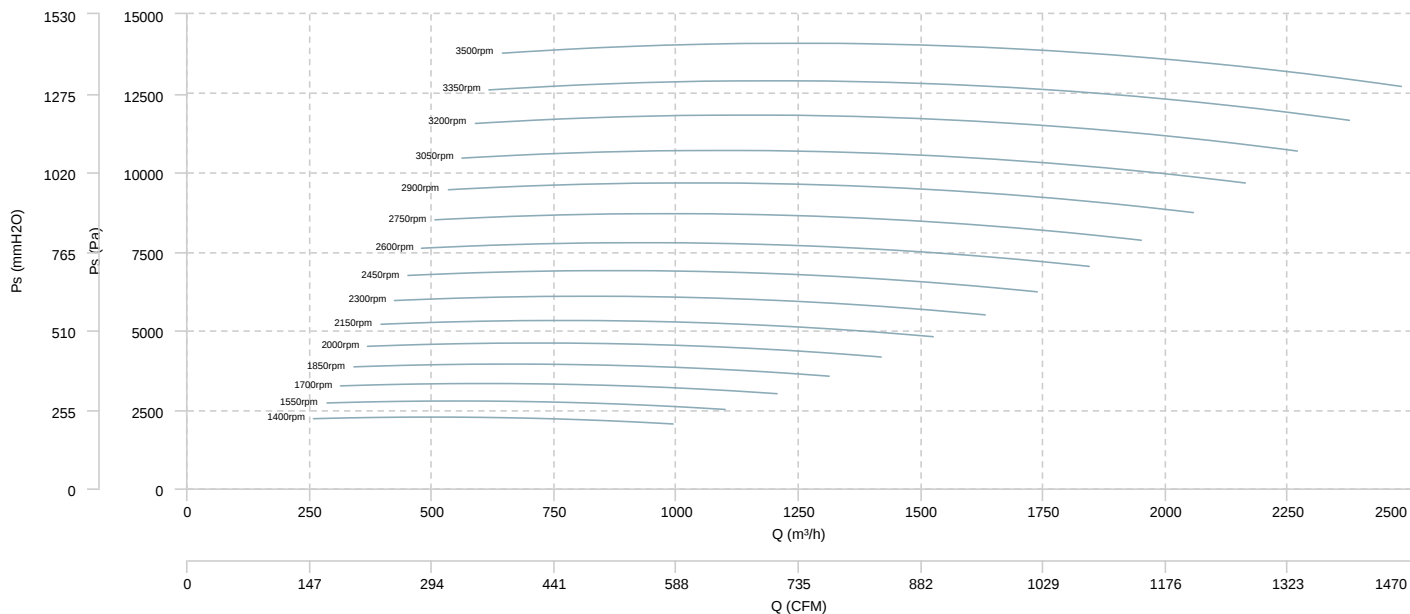


AIR FLOW - MECHANICAL POWER

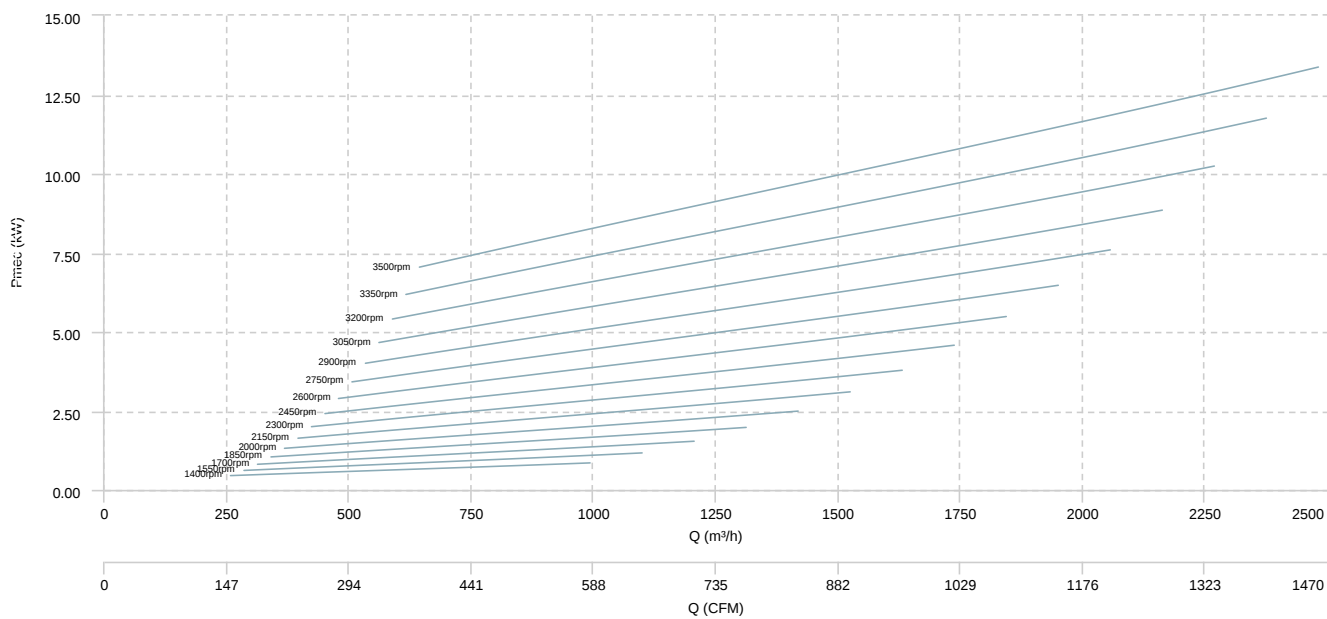


AATVC 710 ATEX

AIR FLOW - PRESSURE

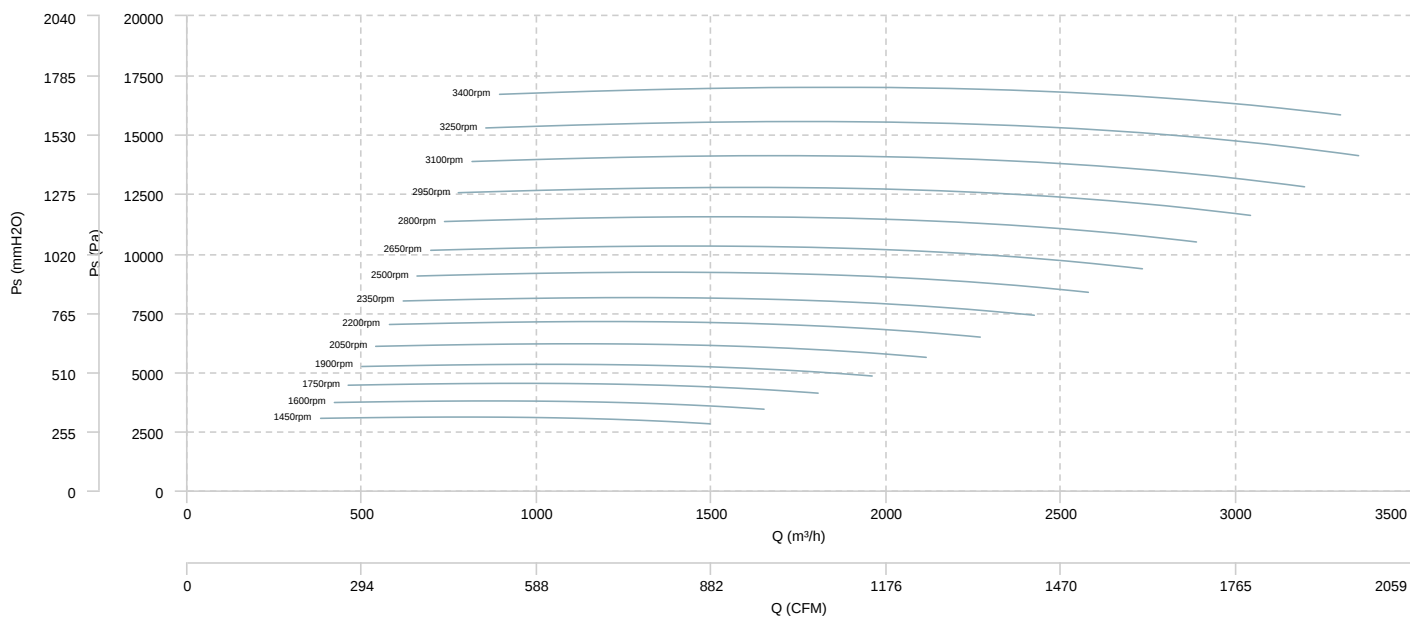


AIR FLOW - MECHANICAL POWER

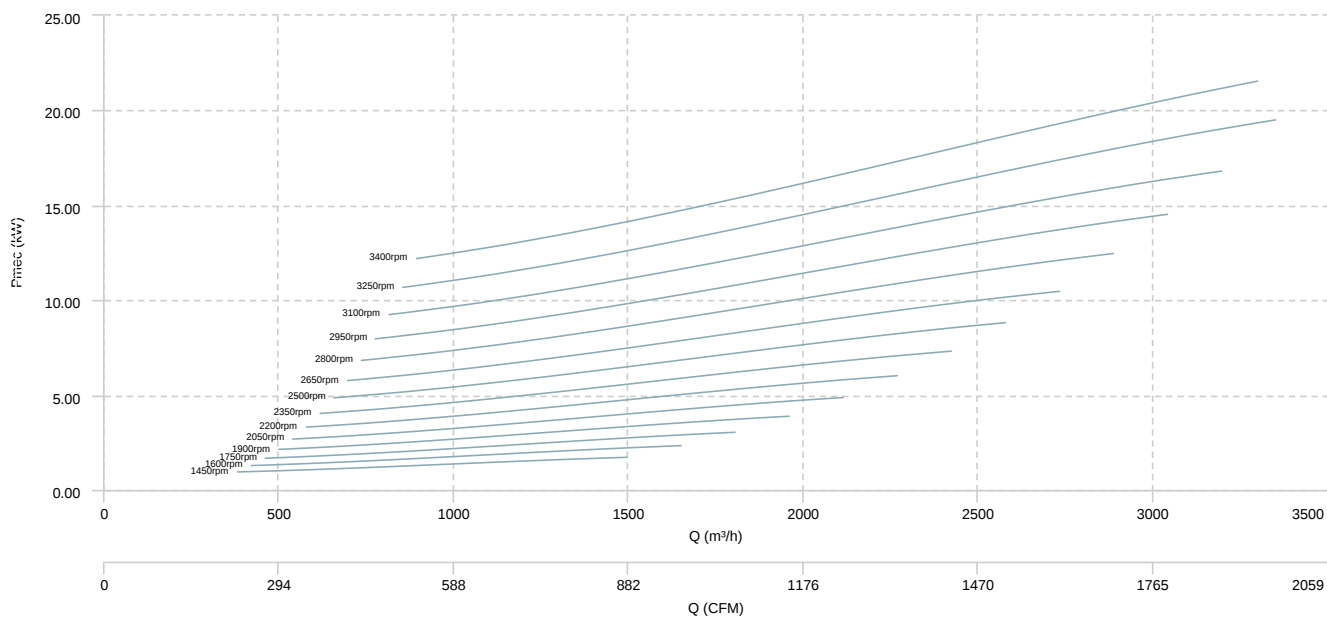


AATVC 800 ATEX

AIR FLOW - PRESSURE

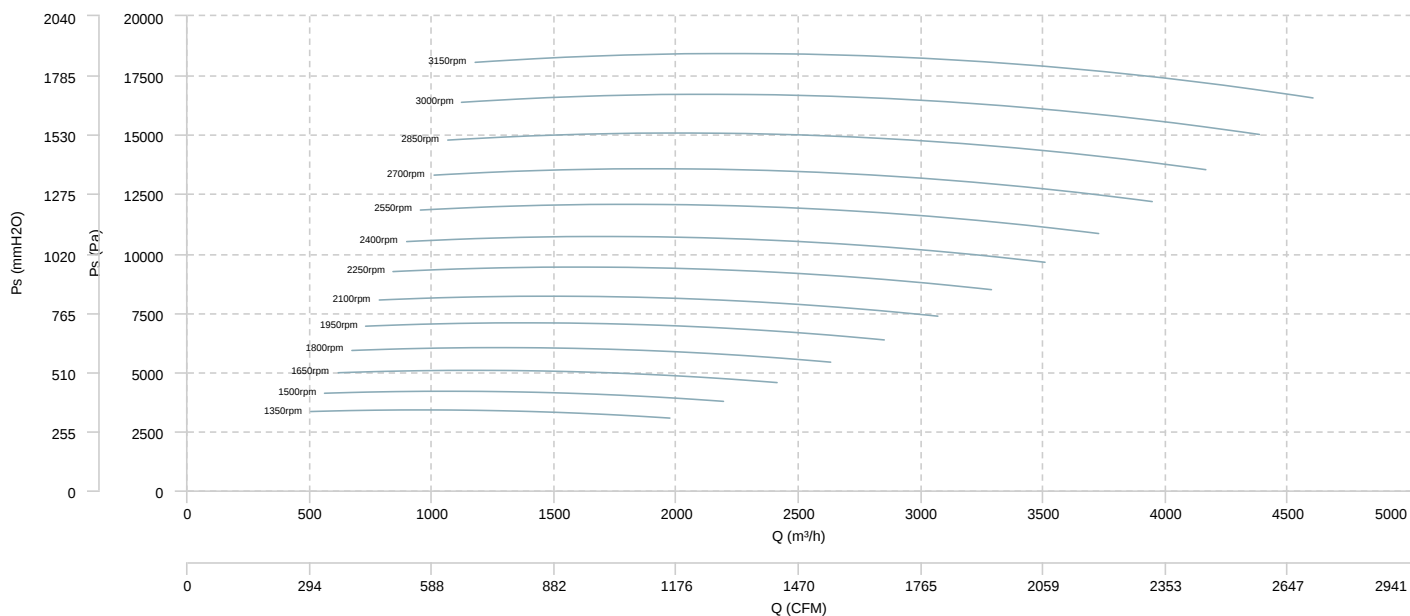


AIR FLOW - MECHANICAL POWER

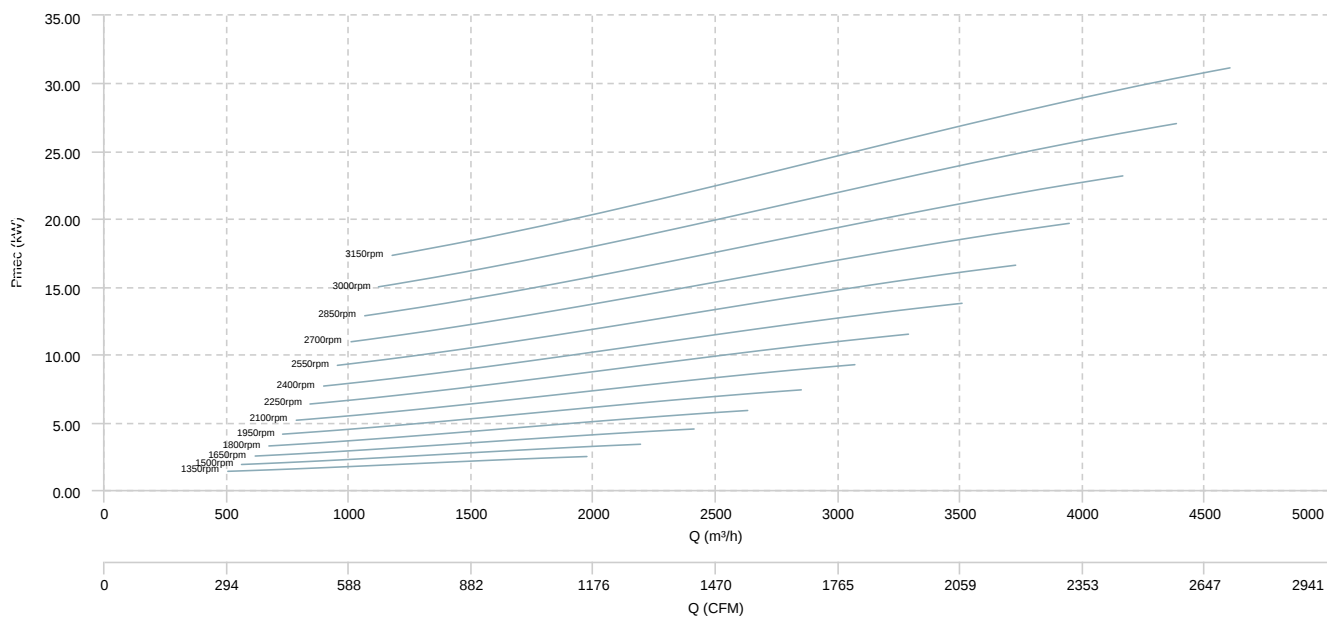


AATVC 900 ATEX

AIR FLOW - PRESSURE

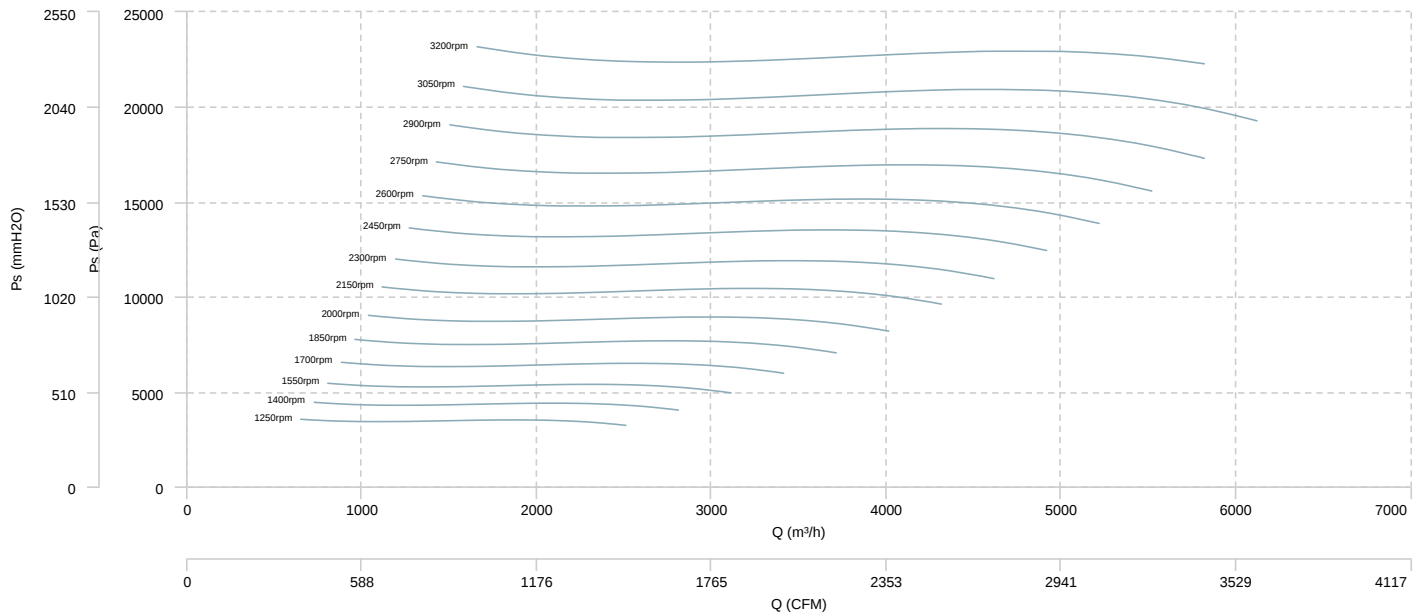


AIR FLOW - MECHANICAL POWER

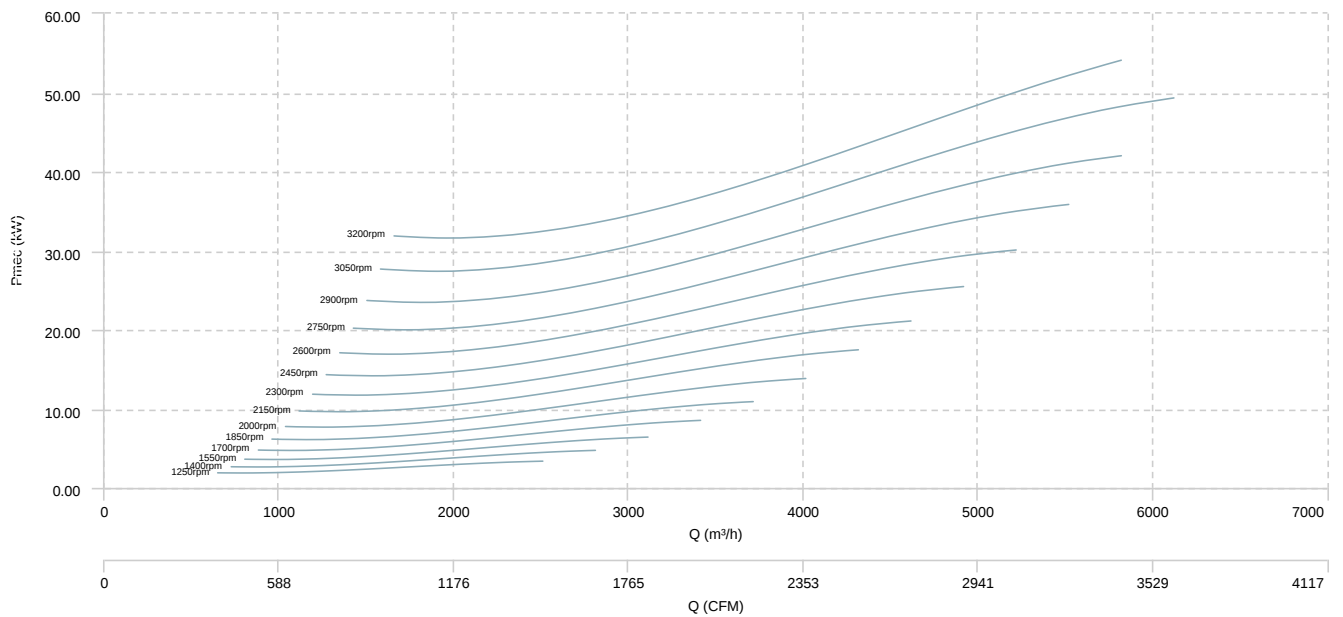


AATVC 1000 ATEX

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
AATVC 500 ATEX (1800rpm)	Inlet	42	54	61	65	66	61	55	52	70
AATVC 560 ATEX (1600rpm)	Inlet	43	55	61	65	66	61	55	52	70
AATVC 630 ATEX (1700rpm)	Inlet	46	58	65	69	70	65	59	56	74
AATVC 710 ATEX (1400rpm)	Inlet	45	57	63	67	68	63	57	54	72
AATVC 800 ATEX (1450rpm)	Inlet	48	60	67	71	72	67	60	57	76
AATVC 900 ATEX (1350rpm)	Inlet	49	61	67	71	72	68	61	58	76
AATVC 1000 ATEX (1250rpm)	Inlet	51	63	69	73	74	69	63	60	78

Notes:

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

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