

HIGH PRESSURE CENTRIFUGAL FANS



Ventiladores centrífugos de alta presión

AATVM

High pressure with backward impeller and belt transmission

Ventilador a transmisión con turbina a reacción



EN

ES

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.
- Orientation can be adjusted on site from models 350 to 630. Models sizes from 710 to 2000 size the orientation is fixed.

APPLICATIONS

Designed for inline installation, they are suitable for:

- Industrial applications, extraction or injection of air.
- Machine cooling.
- 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 explosion-proof 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.

CARACTERÍSTICAS CONSTRUCTIVAS

- Ventilador fabricado en chapa Fe360. La pintura de los ventiladores está formulada a base de poliéster en polvo Qualicoat polimerizada a 200°C con un grosor medio de 70 micras. La resistencia térmica media de la pintura es de 180°C con picos de 200°C.
- Carcasa totalmente soldada.
- Turbina de pala reacción y simple aspiración fabricada en Fe360 equilibrada estática y dinámicamente. Las turbinas se pintan con imprimación epoxídica con una resistencia térmica de 300°C.
- Ventilador con motor montado sobre bancada (sistema 12). Equipo completo que incluye: motor, correas, poleas, protector de transmisión y eje
- Orientación estándar LG270.
- Permite variar la orientación en destino, en los modelos del 350 al 630. En los tamaños que van del 710 al 2000, la orientación es fija.

APLICACIONES

Diseñados para instalación en conducto, son indicados para:

- Procesos industriales, extracción o inyección localizada.
- Refrigeración de máquinas, enfriamiento de piezas.
- Transporte de aire limpio o ligeramente polvoriento.
- Aspiración después de filtros, separadores y ciclones.
- Transporte neumático.
- Temperatura máxima de trabajo en continuo: aire transportado: 200°C, ambiente: 60°C

BAJO DEMANDA

- Ventiladores para trabajar a 60Hz y voltajes especiales.
- Motor 2 velocidades.
- Ventilador a eje libre (sistema 1) o con motor en mochila (sistema 9).
- Ventiladores antichispas con motor certificado ATEX.
- Ventilador preparado con rodete de refrigeración (R/R) para trabajar hasta 350°C.
- Ventilador fabricado en chapa galvanizada en caliente o acero inoxidable.
- Orientación: RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315, LG0, LG45, LG90, LG135, LG180, LG225, LG315.

ACCESSORIES

accesorios



BELT DRIVEN / transmisión

Code	Model	R.P.M min	R.P.M max	Rated Power kW	Air flow m ³ /h	Sound dB (A)	Weight Kg	Connection diagram
5065035_R	AATVM 350	2000	3500	3	1.760	59	(s.1) 35	1
5065040_R	AATVM 400	2000	3500	7,5	2.200	61	(s.1) 52	1
5065045_R	AATVM 450	1800	3500	7,5	3.710	65	(s.1) 76	1
5065050_R	AATVM 500	1800	3500	18,5	4.810	67	(s.1) 91	1
5065056_R	AATVM 560	1600	3500	22	7.840	72	(s.1) 118	1
5065063_R	AATVM 630	1600	3500	37	10.630	72	(s.1) 160	1
5065071_R	AATVM 710	1450	3500	45	13.570	77	(s.1) 237	1
5065080_R	AATVM 800	1450	3450	55	16.970	79	(s.1) 285	1
5065090_R	AATVM 900	1250	3200	90	23.740	78	(s.1) 437	1
5065100_R	AATVM 1000	1250	3200	200	35.560	81	(s.1) 690	1

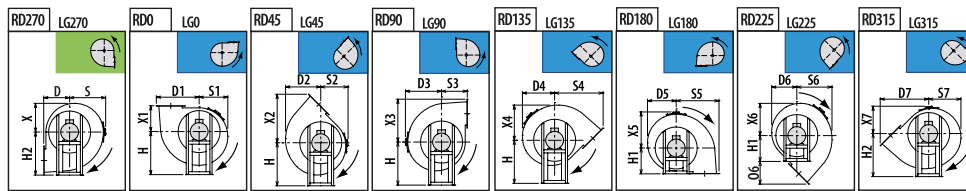
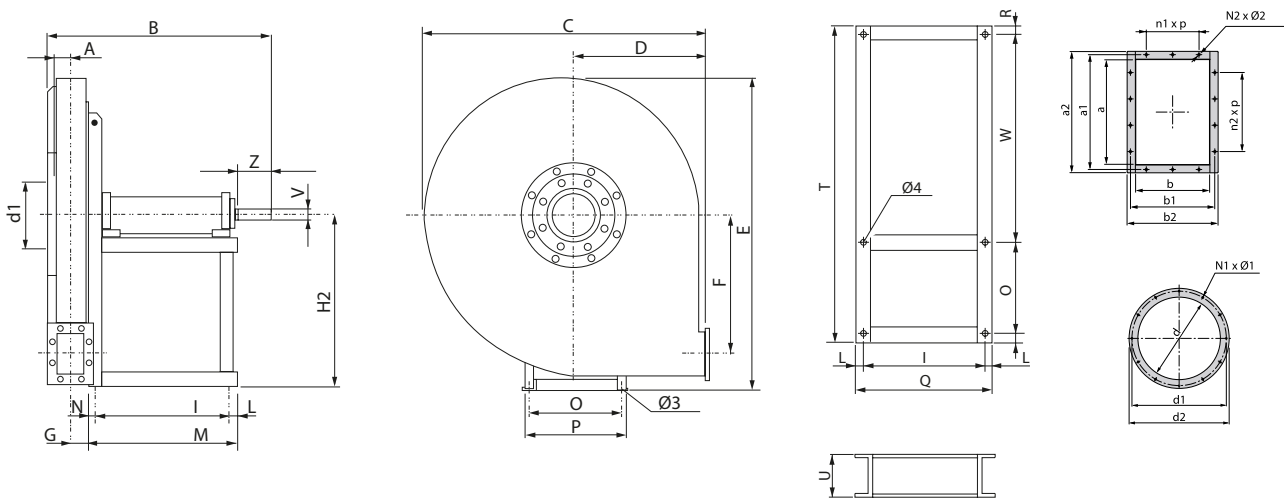
HIGH PRESSURE CENTRIFUGAL FANS

Ventiladores centrífugos de alta presión



Code	Model	R.P.M min	R.P.M max	Rated Power kW	Air flow m ³ /h	Sound dB (A)	Weight Kg	Connection diagram
5065112_R	AATVM 1120	1150	2800	200	41.180	85	(s.1) 738	1
5065125_R	AATVM 1250	1000	2500	200	47.810	85	(s.1) 1105	1
5065140_R	AATVM 1400	900	2000	200	55.750	83	(s.1) 1288	1
5065160_R	AATVM 1600	800	1800	315	77.780	84	(s.1) 1713	1
5065180_R	AATVM 1800	750	1650	315	90.030	85	(s.1) 2370	1
5065200_R	AATVM 2000	650	1350	315	104.430	86	(s.1) 3064	1

DIMENSIONS / dimensiones



MODEL	Ø 3	Ø 4	A	B	C	D	D1	D2	D3	D4	D5	D6	D7	E	F	G	H	H1
AATVM 350	12	12	65	555	565	250	323	287	315	280	262	272	405	617	215	56	355	250
AATVM 400	14	14	71	710	620	280	356	314	340	302	284	293	450	659	238	63	375	280
AATVM 450	14	14	78	745	675	300	393	350	375	335	313	319	490	713	265	70	400	300
AATVM 500	14	14	86	765	745	335	436	386	410	370	345	350	546	795	297	78	450	335
AATVM 560	17	17	95	885	835	375	488	438	460	418	393	392	613	893	337	88	500	375
AATVM 630	17	17	105	905	940	425	545	493	515	472	440	438	688	1000	381	98	560	425

MODEL	H2	I	L	M	N	N1 x Ø1	N2 x Ø2	O	O6	P	Q	R	S	S1	S2	S3	S4	S5
AATVM 350	355	284	23	347	40	8x8	6x12	288	155	324	330	18	315	262	272	250	405	323
AATVM 400	375	407	28	485	50	8x8	6x12	355	170	400	463	23	340	284	293	280	450	356
AATVM 450	400	407	28	485	50	8x8	6x12	355	190	400	463	23	375	313	319	300	490	393
AATVM 500	450	407	28	485	50	8x10	8x12	355	211	400	463	23	410	345	350	335	546	436
AATVM 560	500	477	33	560	50	8x12	8x12	364	238	418	543	27	460	393	392	375	613	488
AATVM 630	560	477	33	560	50	8x12	10x12	364	263	418	543	27	515	440	438	425	688	545

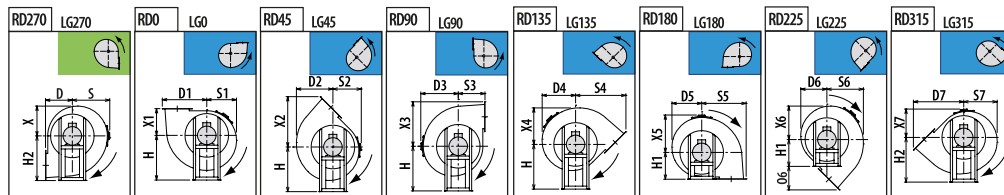
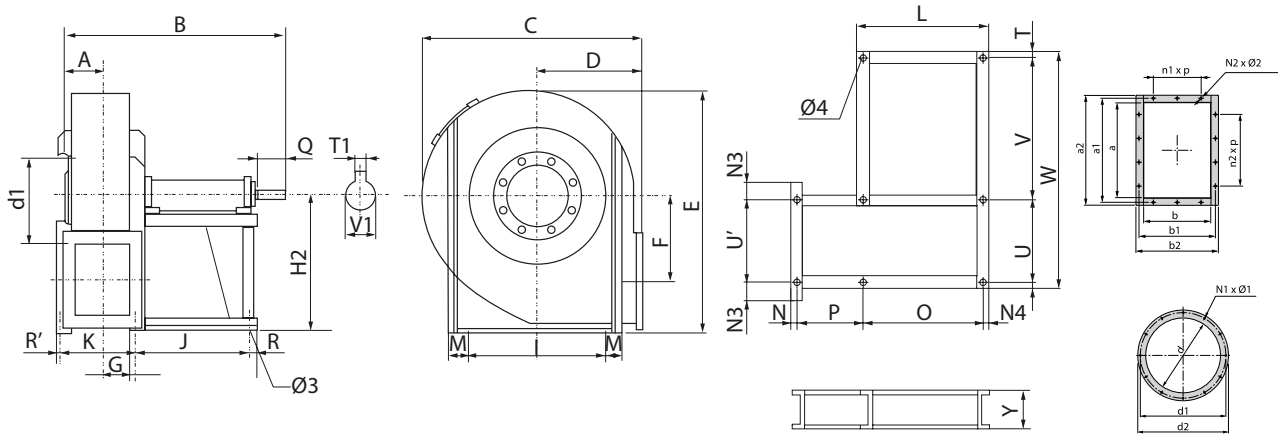
MODEL	S6	S7	T	U	V	W	X	X1	X2	X3	X4	X5	X6	X7	Z	a	a1	a2
AATVM 350	287	280	900	100	24	576	262	250	405	323	287	315	280	272	50	146	182	216
AATVM 400	314	302	1060	120	28	660	284	280	450	356	314	340	302	293	60	166	200	236
AATVM 450	350	335	1060	120	38	660	313	300	490	393	350	375	335	319	80	185	219	255
AATVM 500	386	370	1180	120	38	780	345	335	546	436	386	410	370	350	80	207	241	277
AATVM 560	438	418	1250	160	42	832	393	375	613	488	438	460	418	392	110	231	265	301
AATVM 630	493	472	1250	160	48	832	440	425	688	545	493	515	472	438	110	258	292	328

MODEL	b	b1	b2	d	d1	d2	n1 x p	n2 x p
AATVM 350	105	139	175	185	219	250	-	1x112
AATVM 400	117	151	187	205	241	275	-	1x112
AATVM 450	131	165	201	228	265	298	-	1x112
AATVM 500	148	182	218	255	292	325	1x112	1x112
AATVM 560	166	200	236	285	332	365	1x112	1x112
AATVM 630	185	219	255	320	366	400	1x112	1x112

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MODEL	Ø 3	Ø 4	A	B	C	D	D1	D2	D3	D4	D5	D6	D7	E	F	G	H	H1
AATVM 710	19	20	115	1035	1045	475	610	547	570	522	493	489	767	1123	426	160	630	475
AATVM 800	19	20	127	1070	1170	530	682	622	640	592	555	545	854	1265	481	192,5	710	530
AATVM 900	19	20	140	1240	1315	600	763	696	715	668	628	617	963	1428	542	222	800	600
AATVM 1000	24	25	160	1435	1460	670	849	805	790	765	691	640	1074	1591	607	263	900	670
AATVM 1120	24	24	185	1465	1630	750	951	898	880	857	770	713	1202	1770	684	278,5	860	750
AATVM 1250	24	30	200	1500	1815	840	1059	998	975	944	864	802	1343	1984	765	298	960	840
AATVM 1400	28	30	232	1655	2028	936	1188	1114	1092	1063	963	893	1500	2163	853	349,5	1070	936
AATVM 1600	28	30	257	1915	2310	1060	1334	1271	1250	1218	1110	1033	1693	2510	965	384	1200	1060
AATVM 1800	28	30	404	2000	2607	1210	1498	1425	1397	1357	1238	1145	1915	2788	1090	411	1400	1210
AATVM 2000	30	30	434	2065	2840	1320	1664	1556	1520	1475	1343	1246	2109	3143	1203	462	1500	1320

MODEL	H2	I	J	K	L	M	N	N1 x Ø1	N2 x Ø2	N3	N4	O	O6	P	Q	R	R'	S
AATVM 710	550	526	551	300	629	32	20	8x12	10x12	63	39	551	262	300	110	39	20	570
AATVM 800	620	526	551	325	629	32	30	12x12	10x12	93	39	551	324	325	110	39	30	640
AATVM 900	695	663	607	354	697	36	45	12x12	10x12	116	45	607	363	354	140	45	45	715
AATVM 1000	770	850	760	426	850	55	50	12x14	14x12	112,5	45	760	404	426	140	45	50	790
AATVM 1120	860	1178	760	447	850	45	55	12x14	14x12	106	45	760	452	447	140	45	55	880
AATVM 1250	960	1310	760	486	1010	45	55	12x14	14x12	110	45	760	503	486	140	45	55	975
AATVM 1400	1070	1450	780	569	1010	55	65	16x14	14x12	120	55	780	564	569	170	55	65	1092
AATVM 1600	1200	1640	917	638	1100	60	65	16x14	14x12	120	65	917	633	638	210	65	65	1250
AATVM 1800	1400	1830	917	692	1100	60	65	16x14	14x12	130	65	917	705	692	210	65	65	1397
AATVM 2000	1500	2030	917	754	1100	60	85	24x14	16x12	170	65	917	789	754	210	65	85	1520

MODEL	S1	S2	S3	S4	S5	S6	S7	T	T1	U	U'	V	V1	X	X1	X2	X3	X4
AATVM 710	493	489	475	767	610	547	522	32	14	526	570	1010	48	493	475	767	610	547
AATVM 800	555	545	530	854	682	622	592	32	16	526	600	1010	55	555	530	854	682	622
AATVM 900	628	617	600	963	763	696	668	36	18	663	663	1065	65	628	600	963	763	696
AATVM 1000	691	640	670	1074	849	805	765	55	20	850	780	1240	75	691	670	1074	849	805
AATVM 1120	770	713	750	1202	951	898	857	45	20	1178	1178	1066	75	770	750	1202	951	898
AATVM 1250	864	802	840	1343	1059	998	944	45	20	1310	1310	1230	75	864	840	1343	1059	998
AATVM 1400	963	983	936	1500	1188	1114	1063	55	22	1450	1450	1240	80	963	936	1500	1188	1114
AATVM 1600	1110	1033	1060	1693	1334	1271	1218	60	25	1640	1640	1195	90	1110	1060	1693	1334	1271
AATVM 1800	1238	1145	1210	1915	1498	1425	1357	60	28	1830	1830	1295	100	1238	1210	1915	1498	1425
AATVM 2000	1343	1246	1320	2109	1664	1556	1475	60	28	2030	2030	1350	100	1343	1320	2109	1664	2556

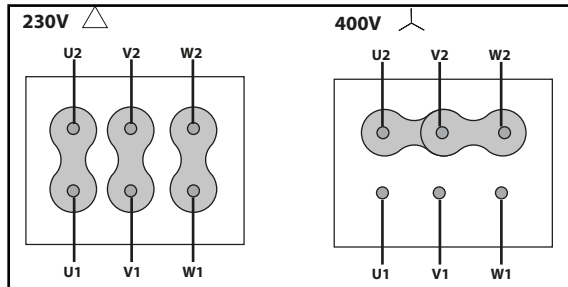
MODEL	X5	X6	X7	Y	a	a1	a2	b	b1	b2	d	d1	d2	n1xp	n2xp
AATVM 710	570	522	489	180	288	332	368	205	249	285	360	405	440	1x125	2x125
AATVM 800	640	592	545	180	322	366	402	229	273	309	405	448	485	1x125	2x125
AATVM 900	715	668	617	200	361	405	441	256	300	336	455	497	535	1x125	2x125
AATVM 1000	790	765	640	200	404	448	484	288	332	368	505	551	585	2x125	3x125
AATVM 1120	880	857	713	220	453	497	533	322	366	402	565	629	665	2x125	3x125
AATVM 1250	975	944	802	220	507	551	587	361	405	441	635	698	735	2x125	3x125
AATVM 1400	1092	1063	893	220	569	629	669	404	464	504	715	775	815	2x160	3x160
AATVM 1600	1250	1218	1033	220	638	698	738	453	513	553	805	861	905	2x160	3x160
AATVM 1800	1397	1357	1145	250	715	775	815	507	567	607	905	958	1005	2x160	4x160
AATVM 2000	1520	1475	1246	250	801	871	921	569	639	689	1007	1067	1107	2x200	3x200



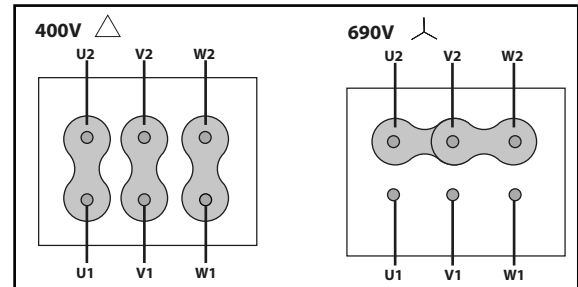
CONNECTION DIAGRAMS / esquema de conexiones

1 THREE PHASE MOTORS 1 SPEED / motores trifásicos 1 velocidad

230/400V



400/690V

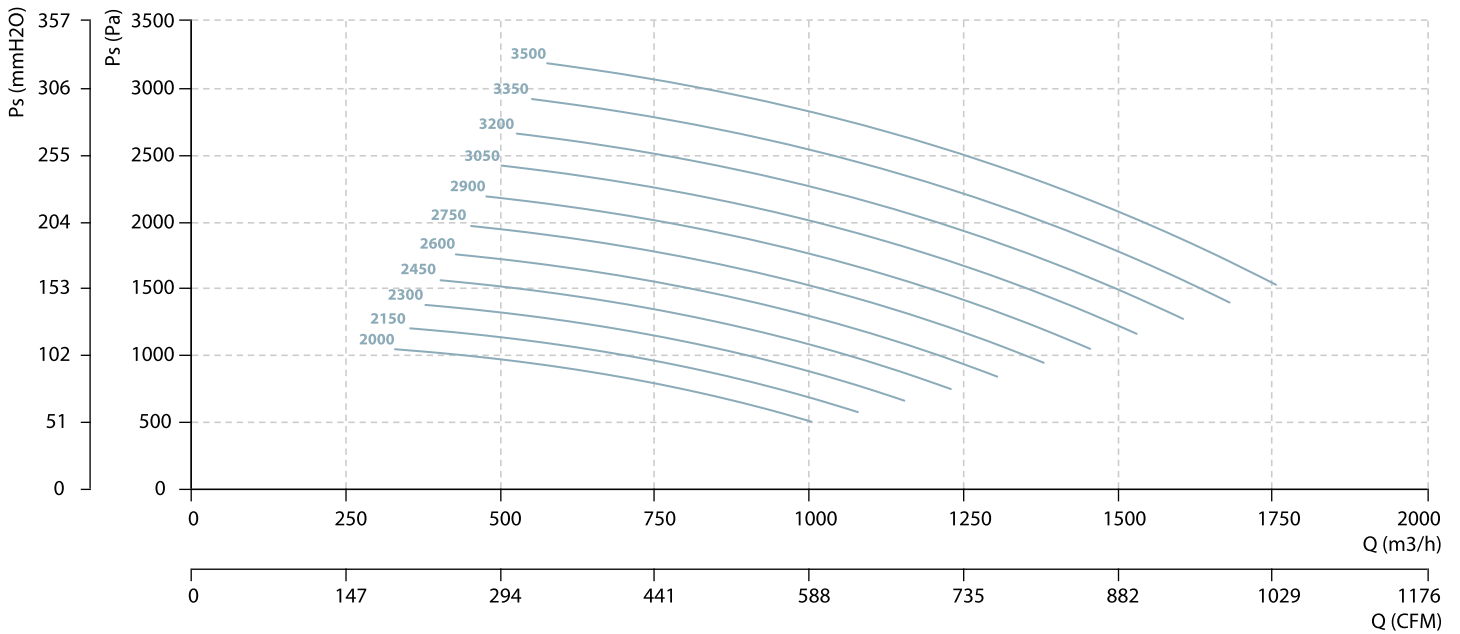




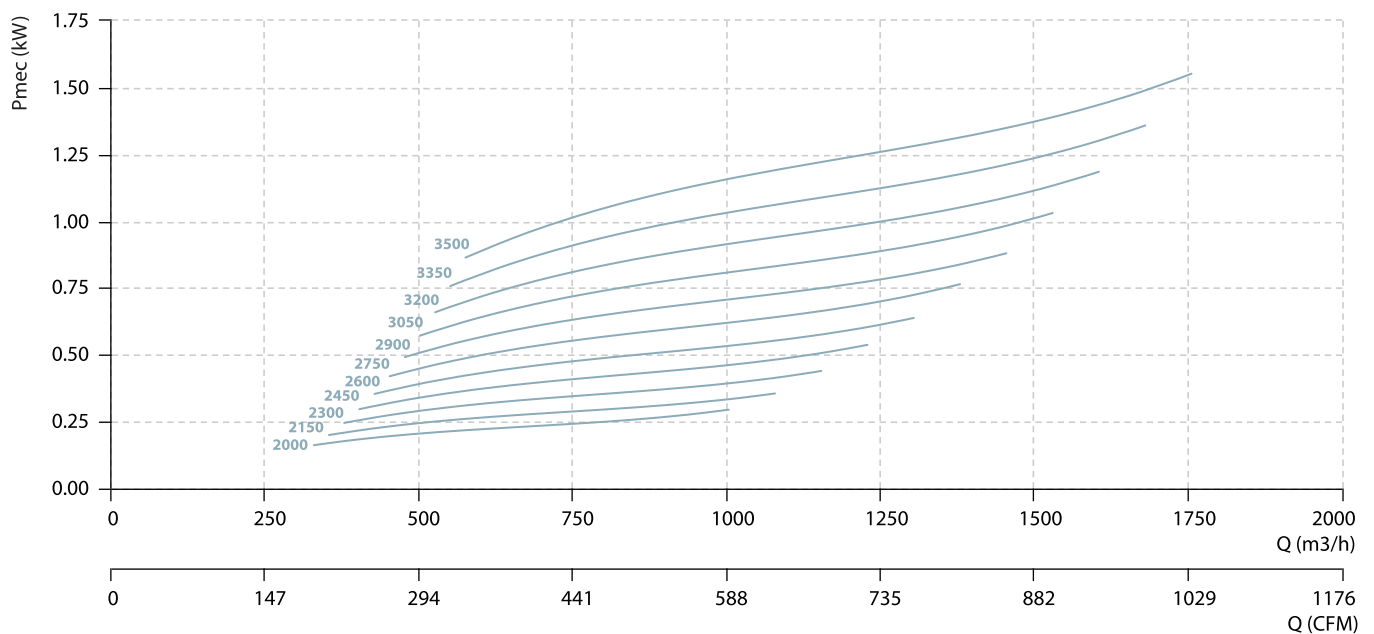
CHARACTERISTIC CURVES / curvas características

1 AATVM 350

AIR FLOW- PRESSURE / caudal - presión



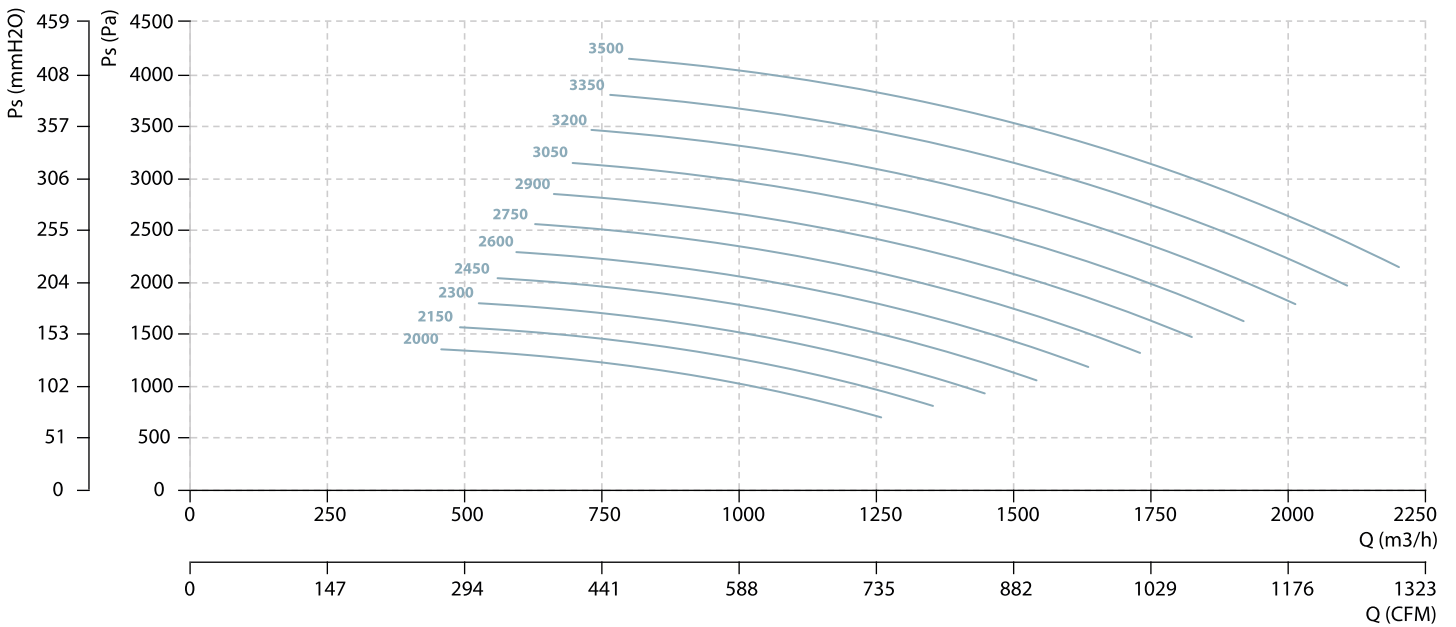
AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



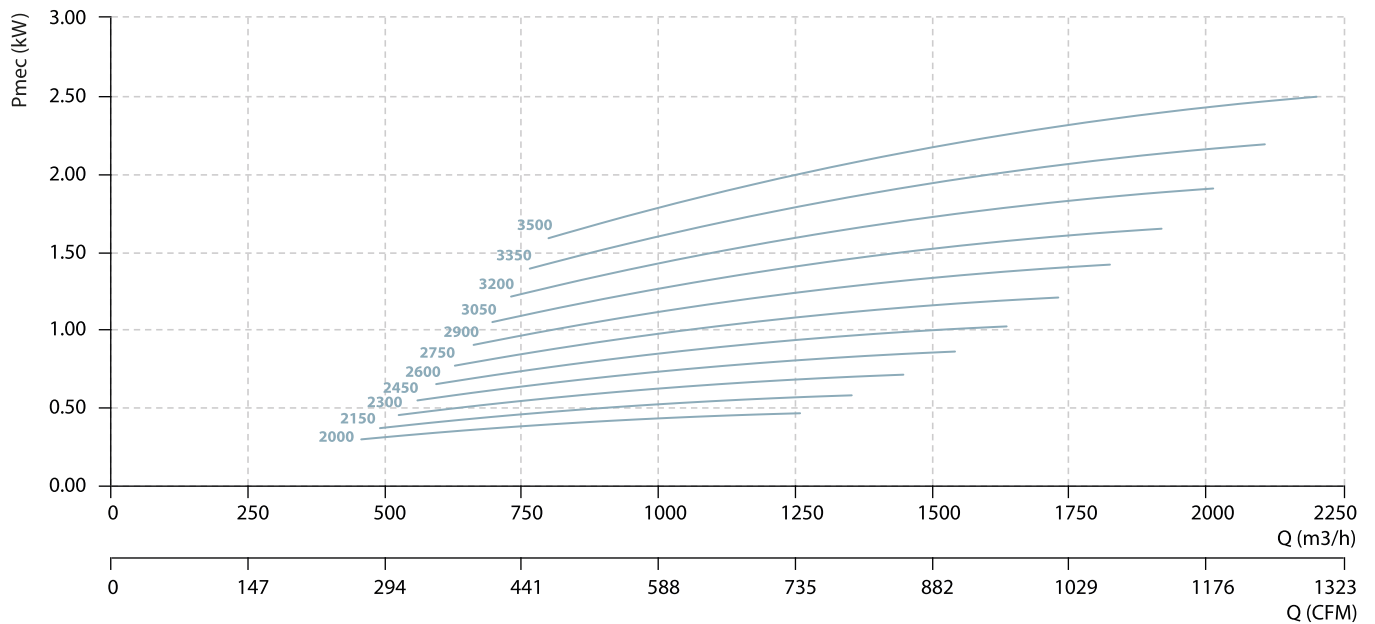


1 AATVM 400

AIR FLOW- PRESSURE / caudal - presión



AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



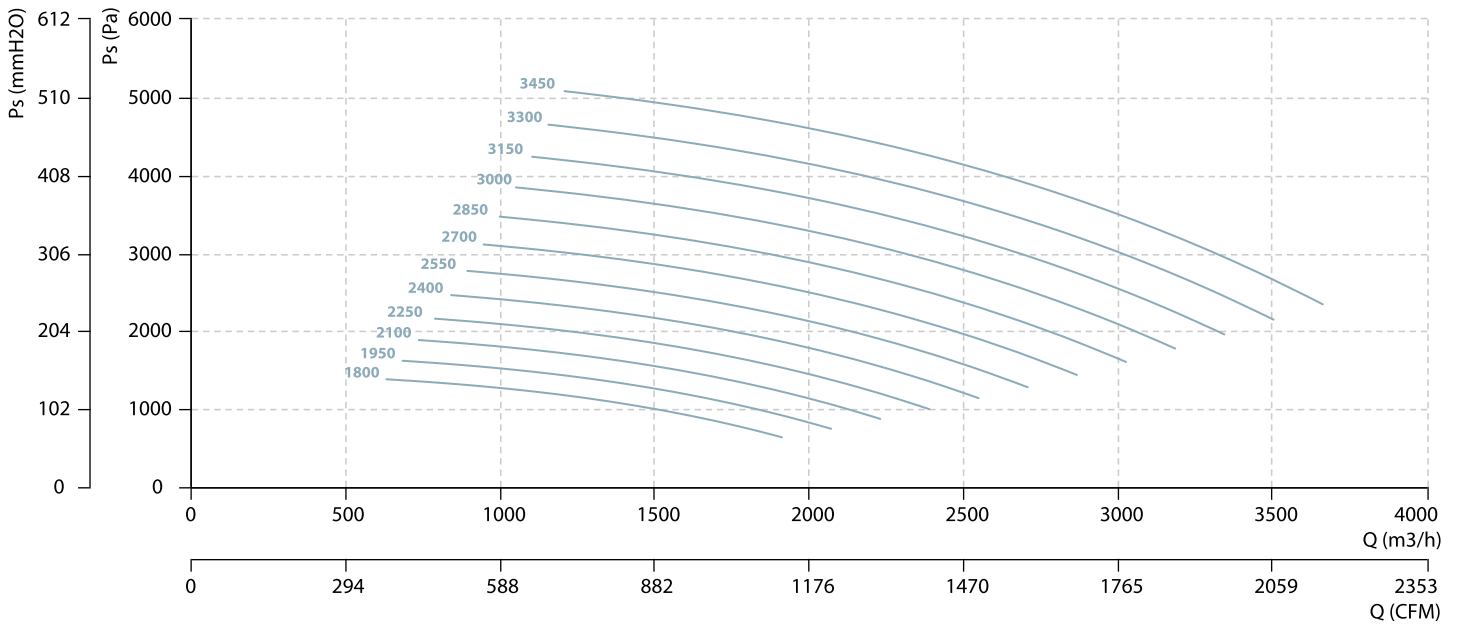
HIGH PRESSURE CENTRIFUGAL FANS



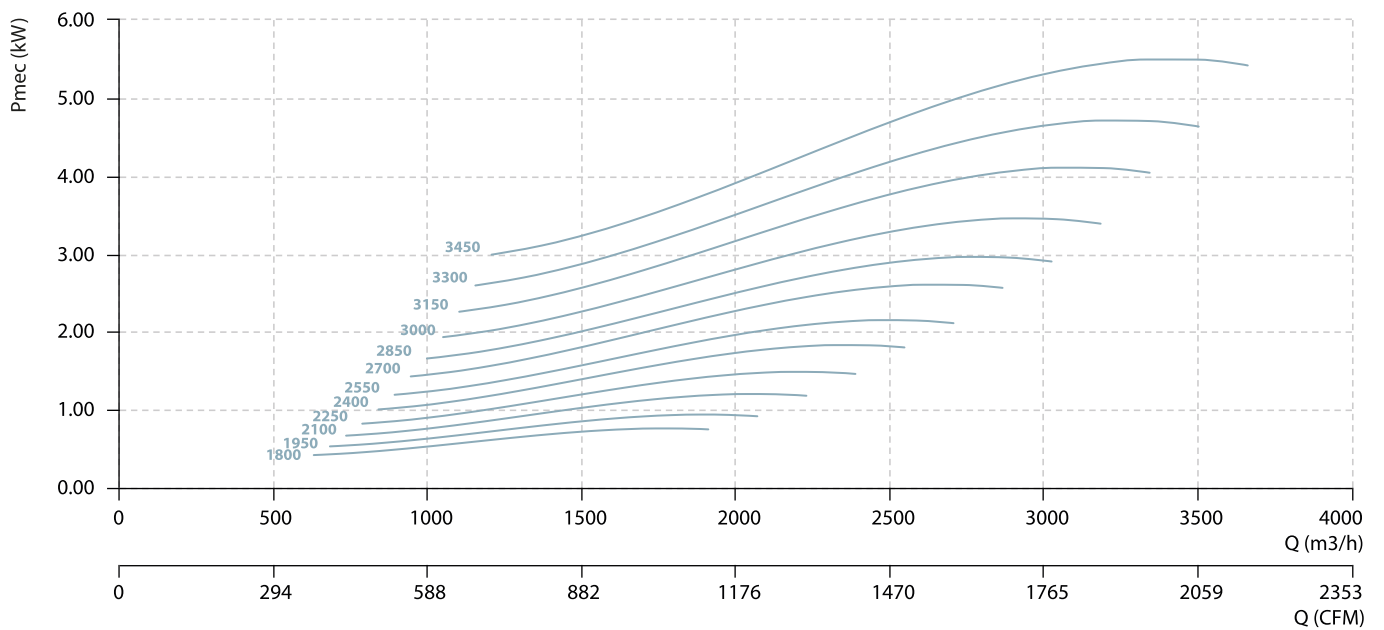
Ventiladores centrífugos de alta presión

1 AATVM 450

AIR FLOW- PRESSURE / caudal - presión



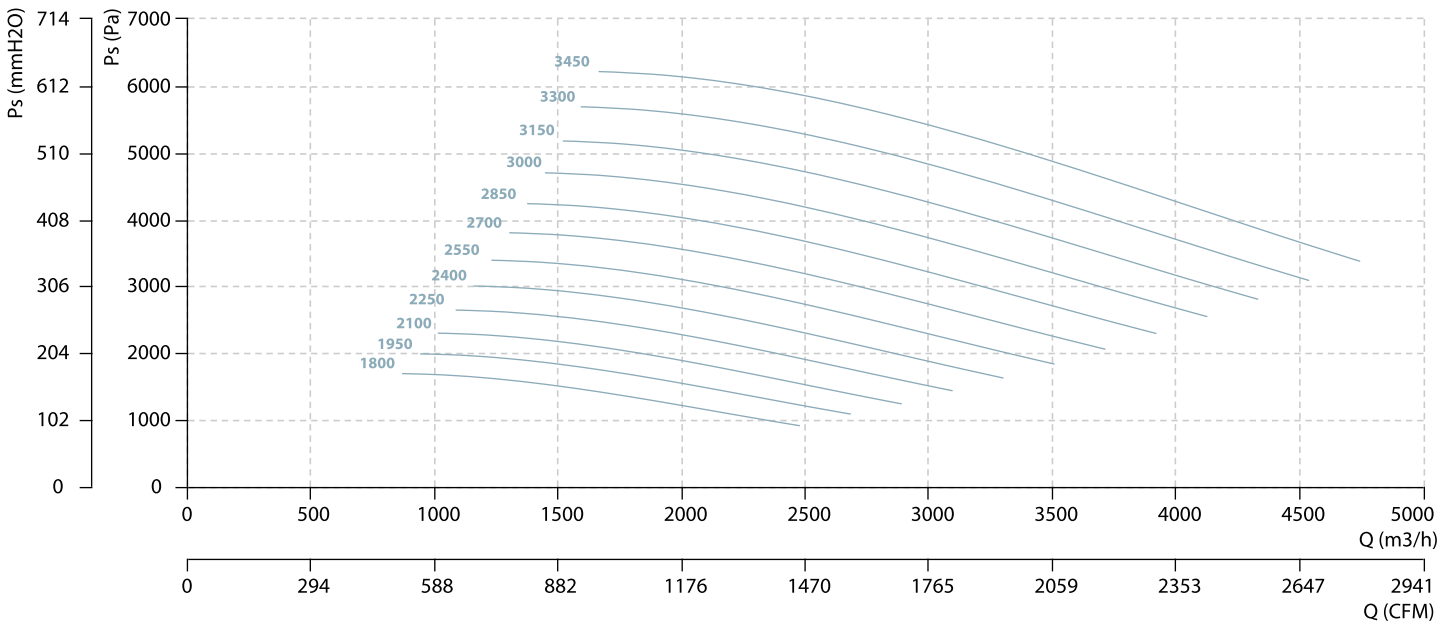
AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



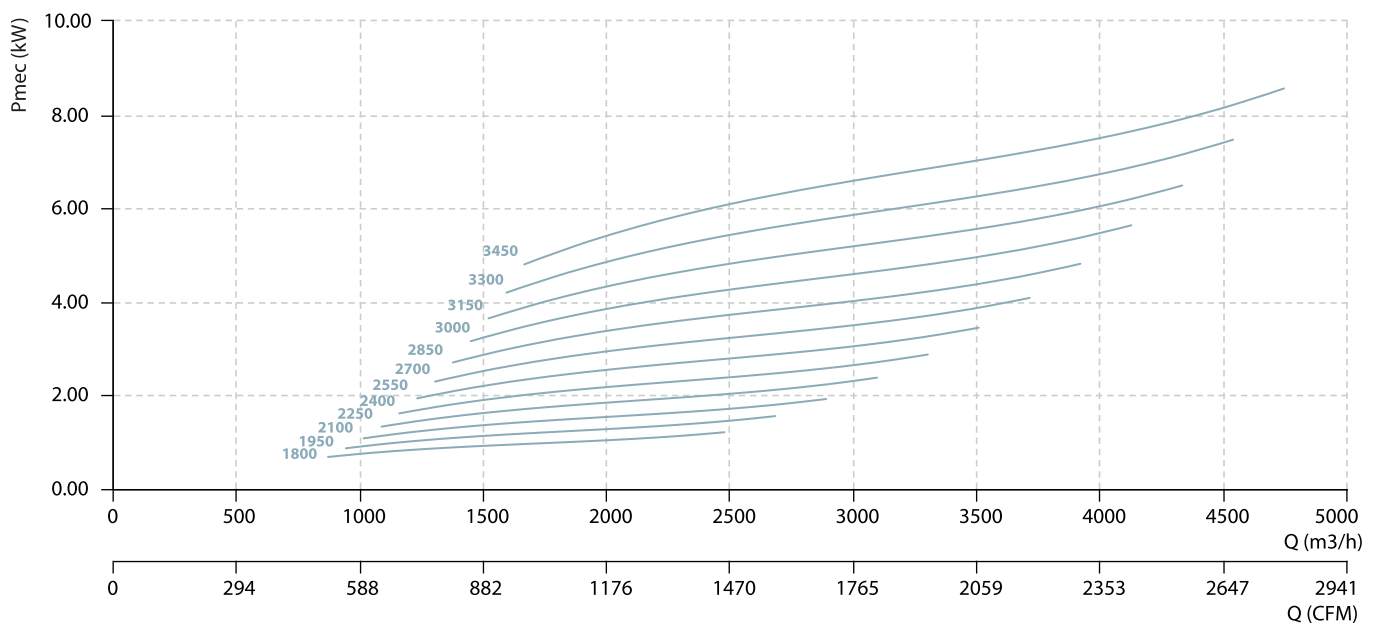


1 AATVM 500

AIR FLOW- PRESSURE / caudal - presión



AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



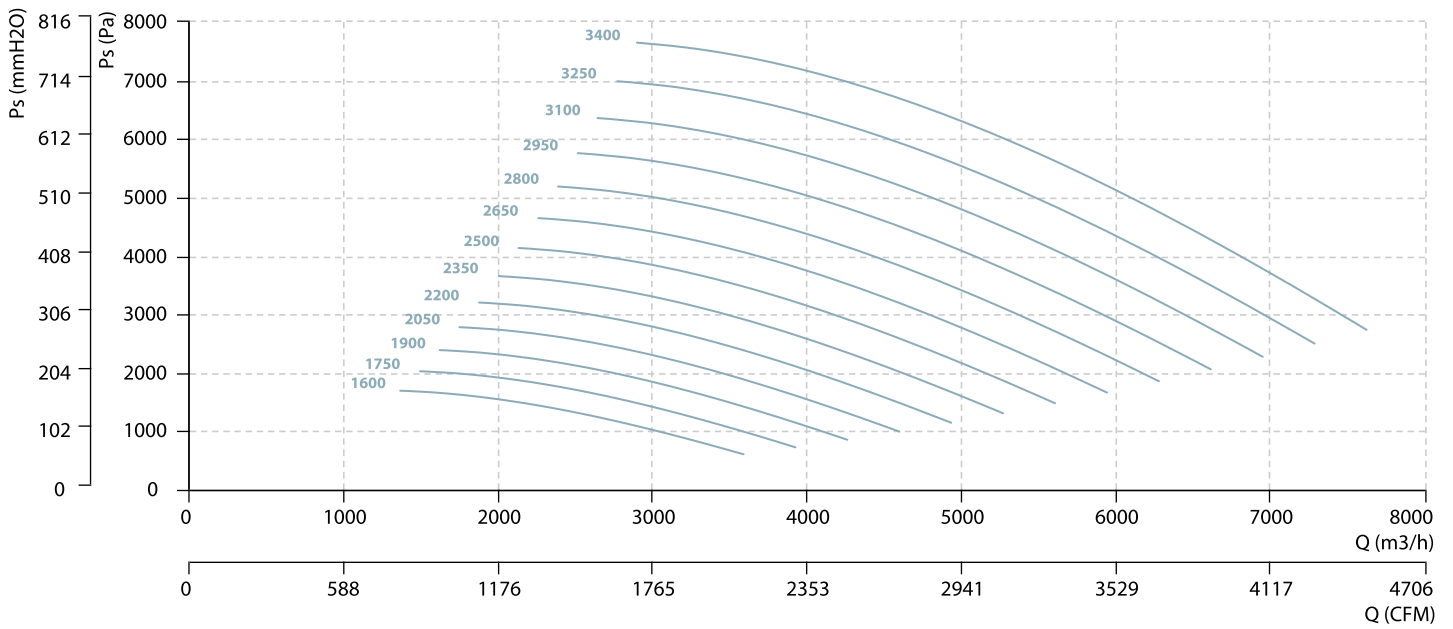
HIGH PRESSURE CENTRIFUGAL FANS



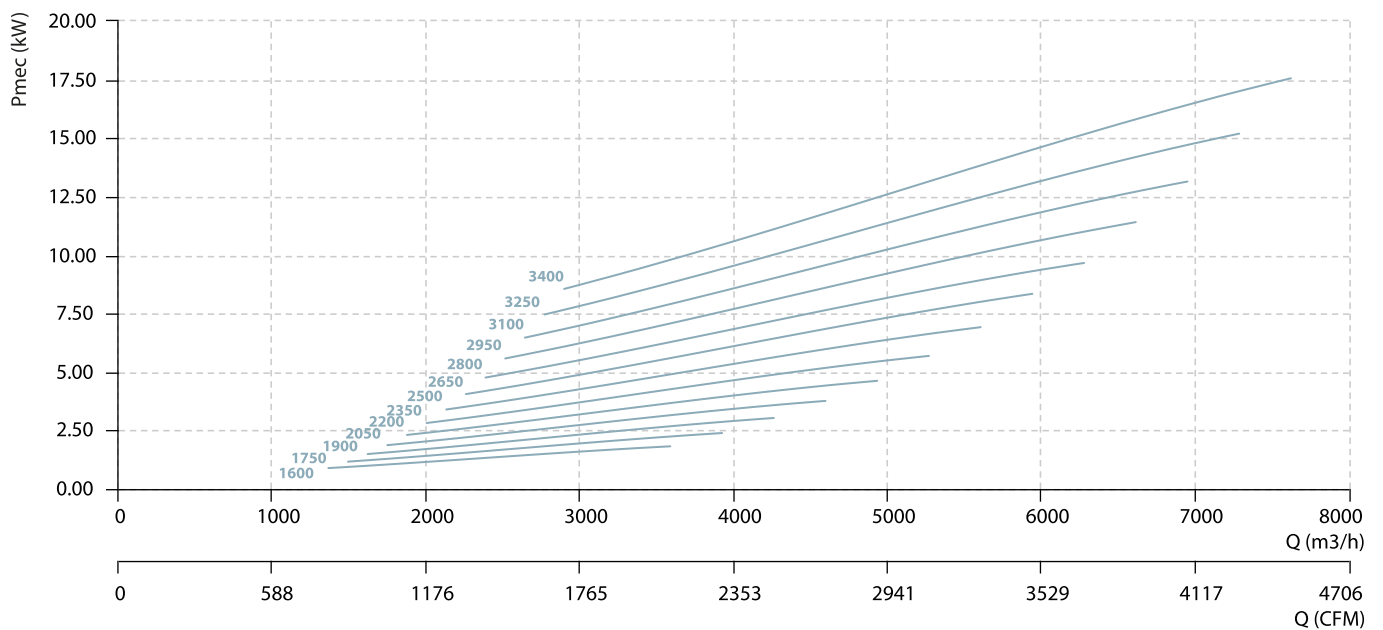
Ventiladores centrífugos de alta presión

1 AATVM 560

AIR FLOW- PRESSURE / caudal - presión



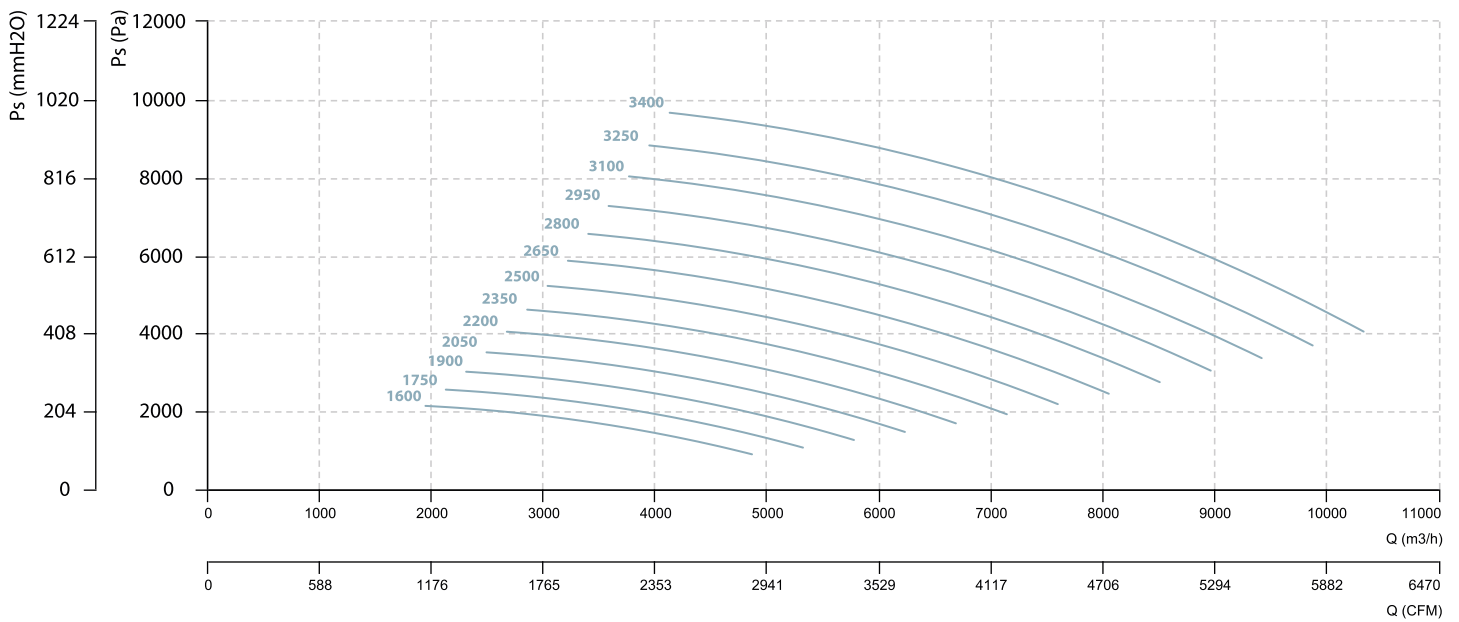
AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



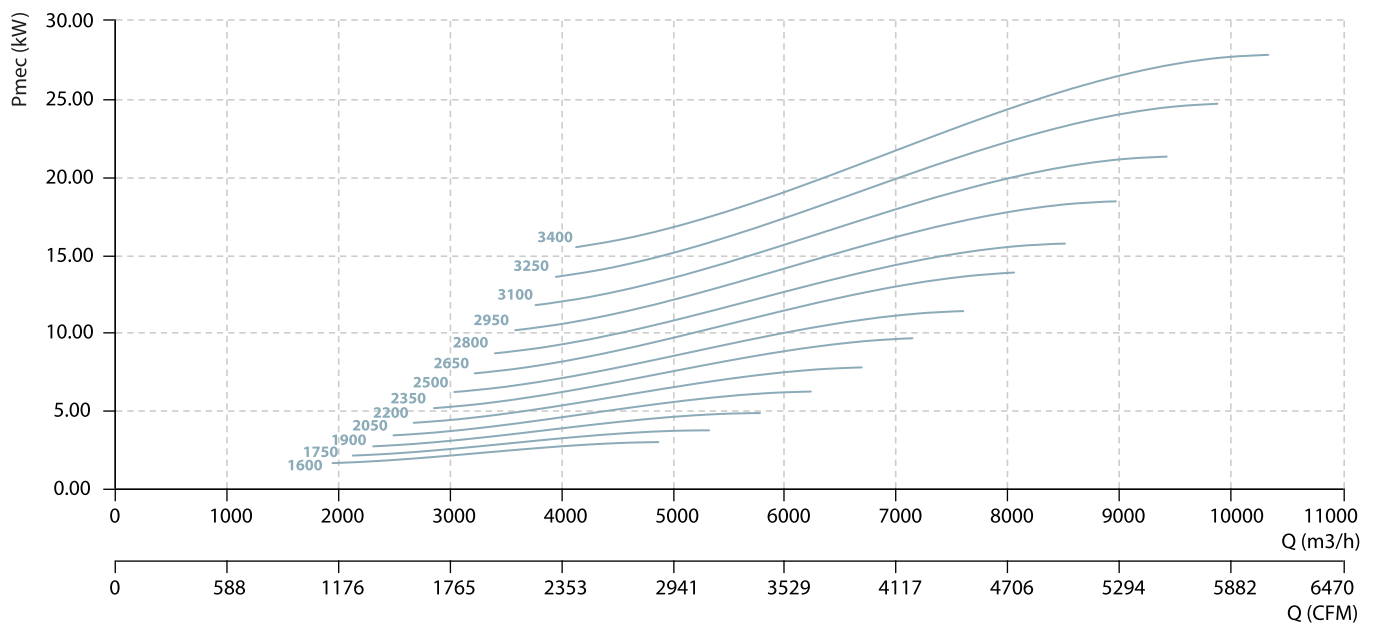


1 AATVM 630

AIR FLOW- PRESSURE / caudal - presión



AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



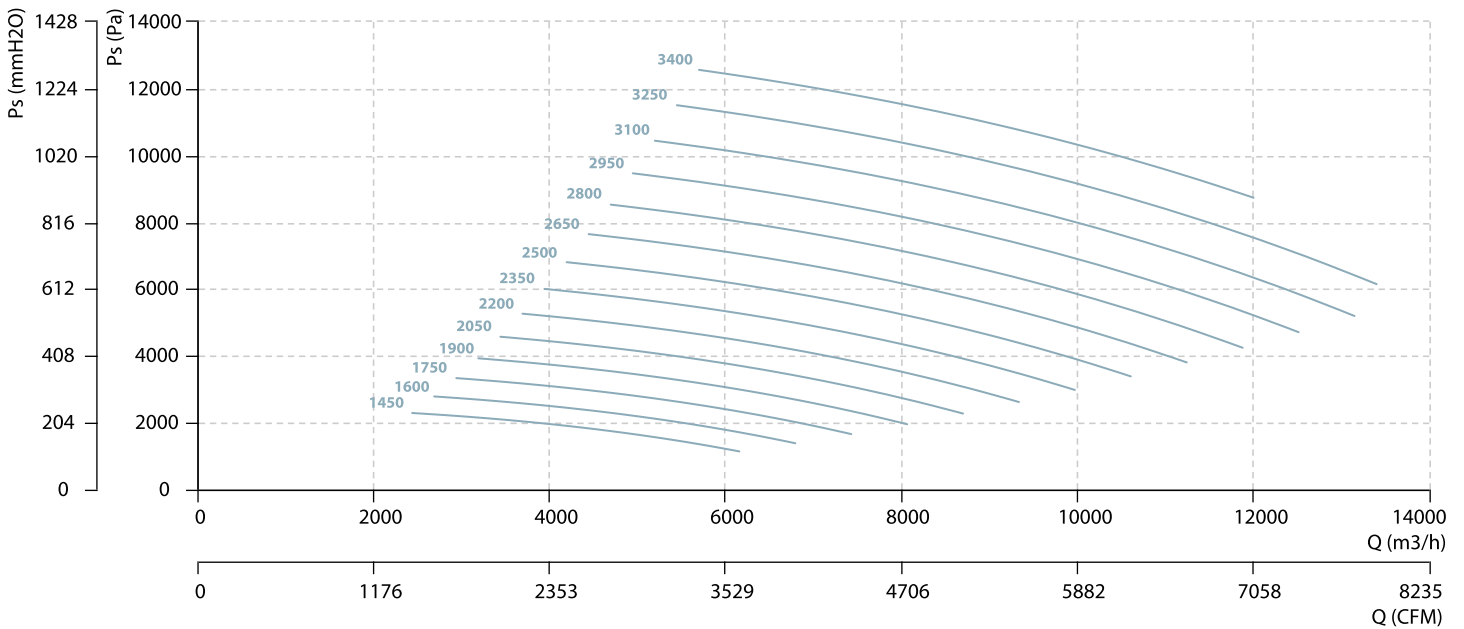
HIGH PRESSURE CENTRIFUGAL FANS



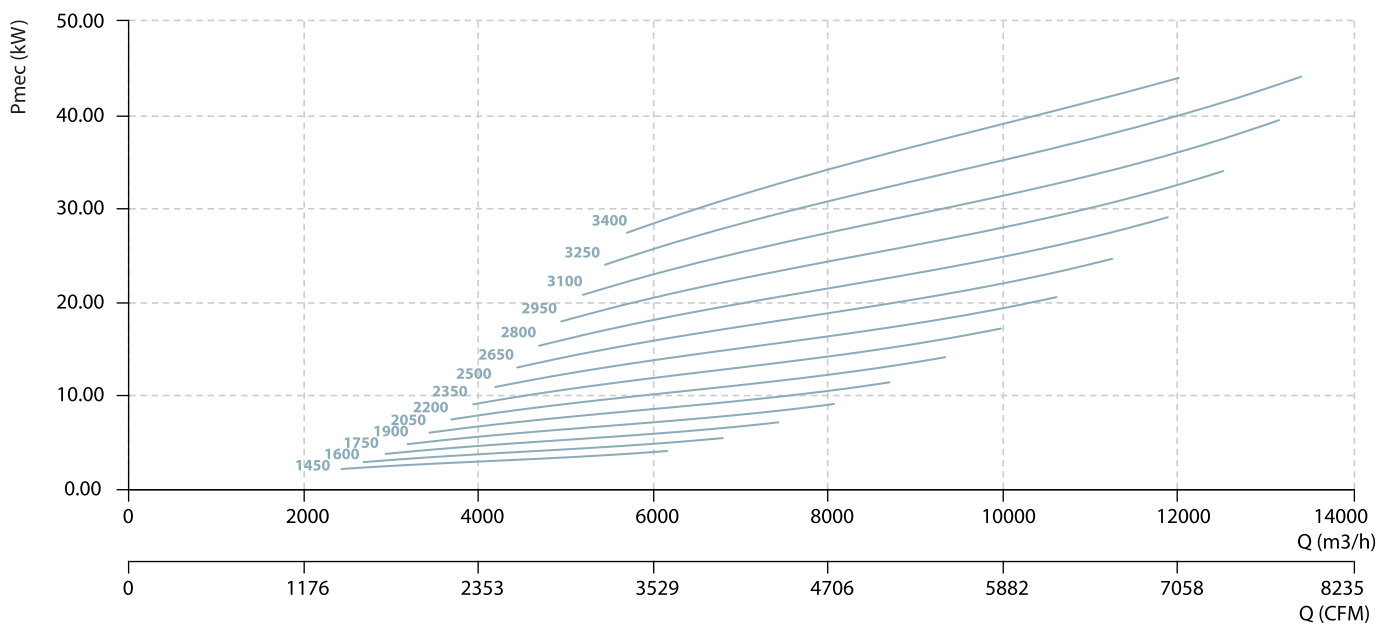
Ventiladores centrífugos de alta presión

1 AATVM 710

AIR FLOW- PRESSURE / caudal - presión



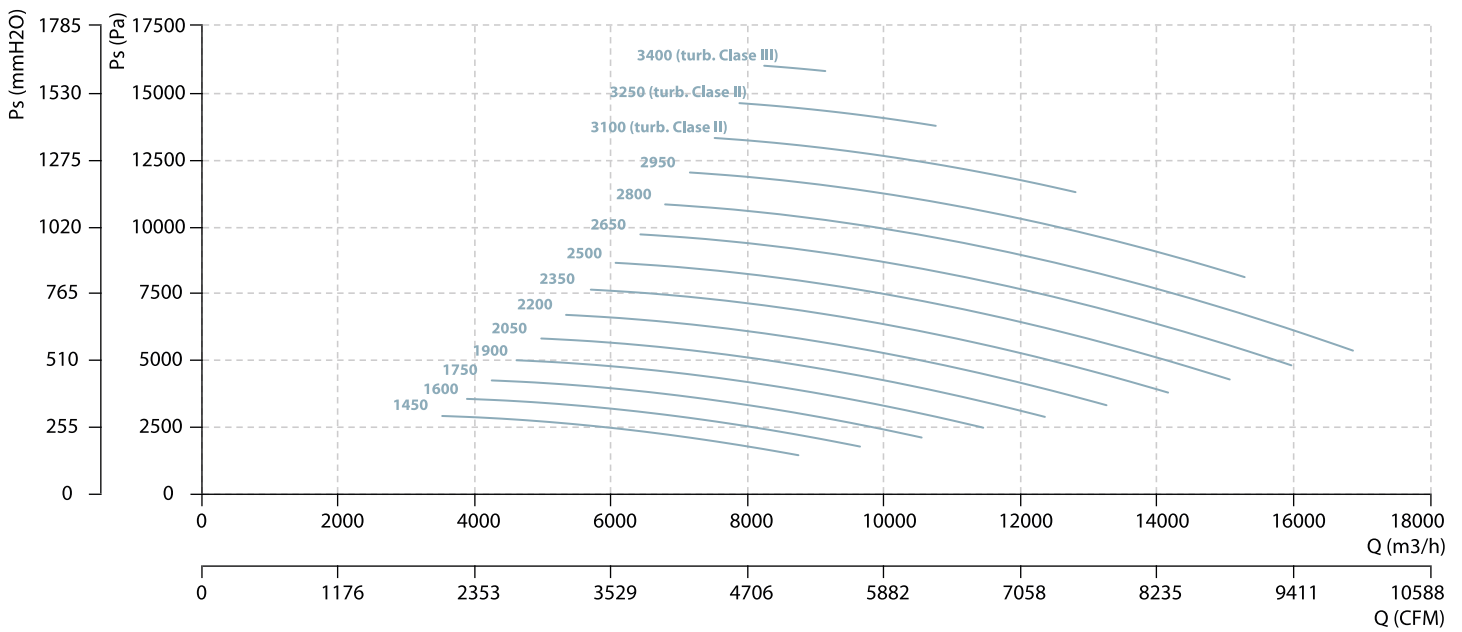
AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



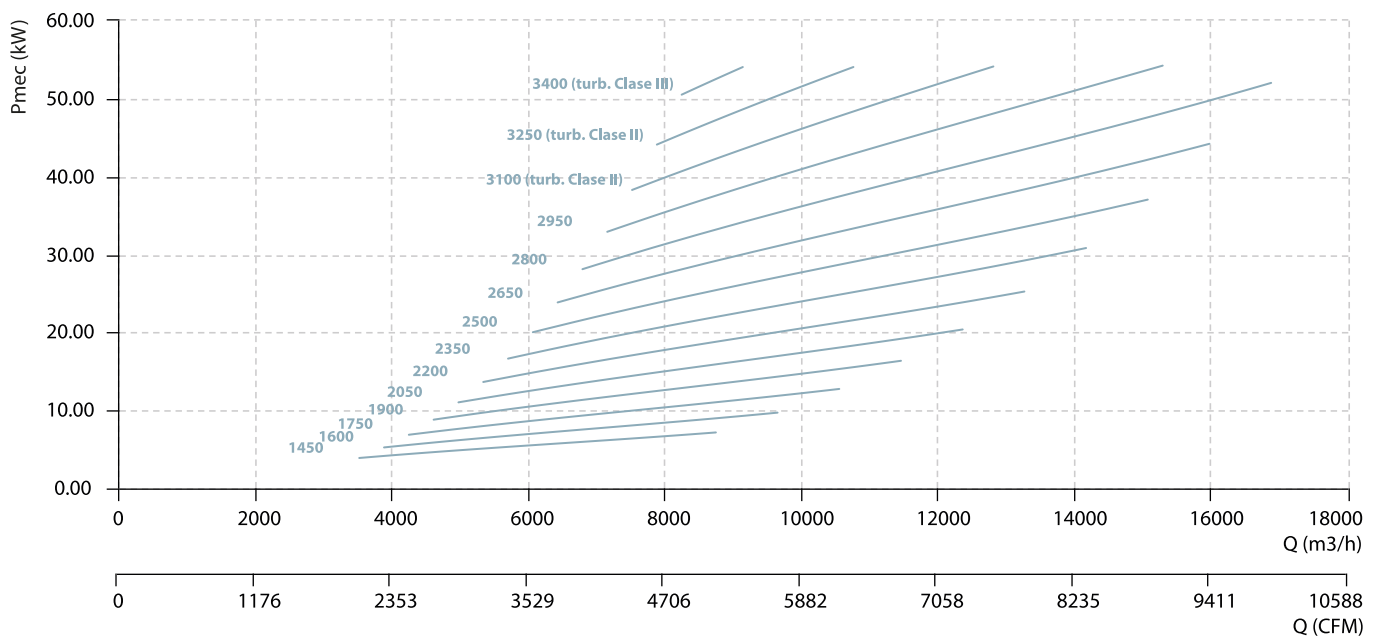


1 AATVM 800

AIR FLOW- PRESSURE / caudal - presión



AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



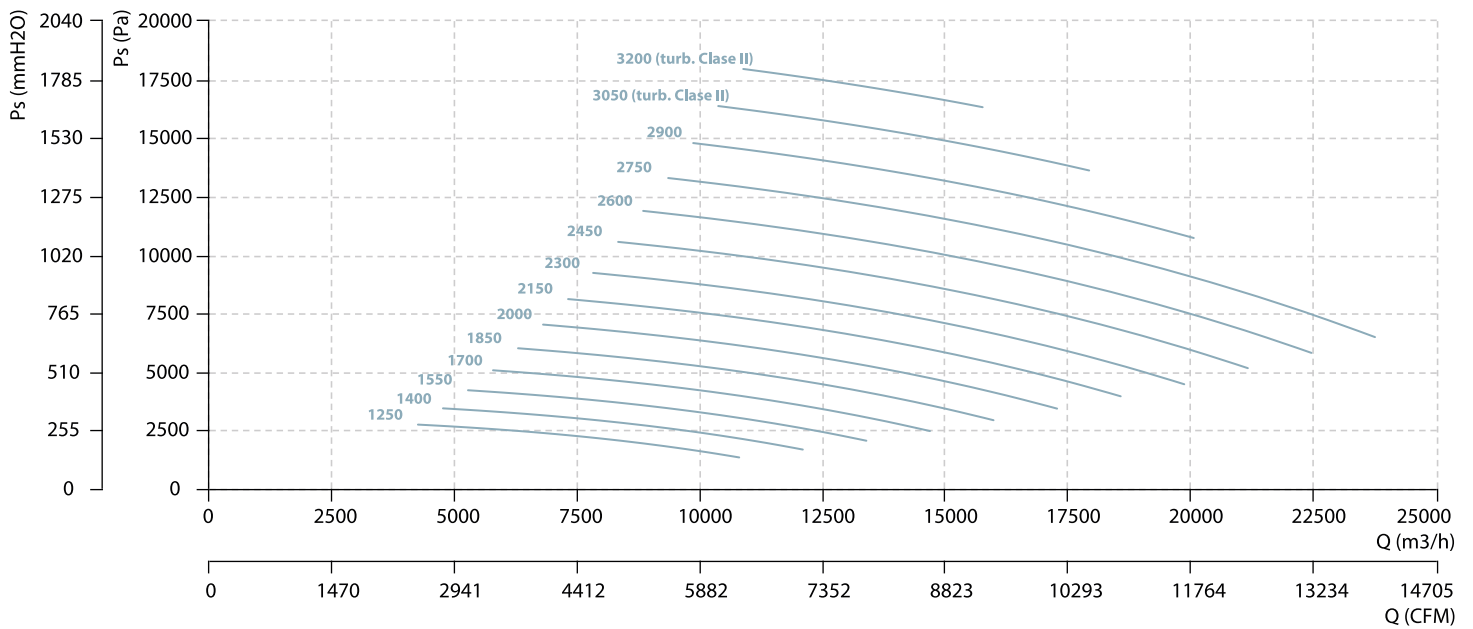
HIGH PRESSURE CENTRIFUGAL FANS



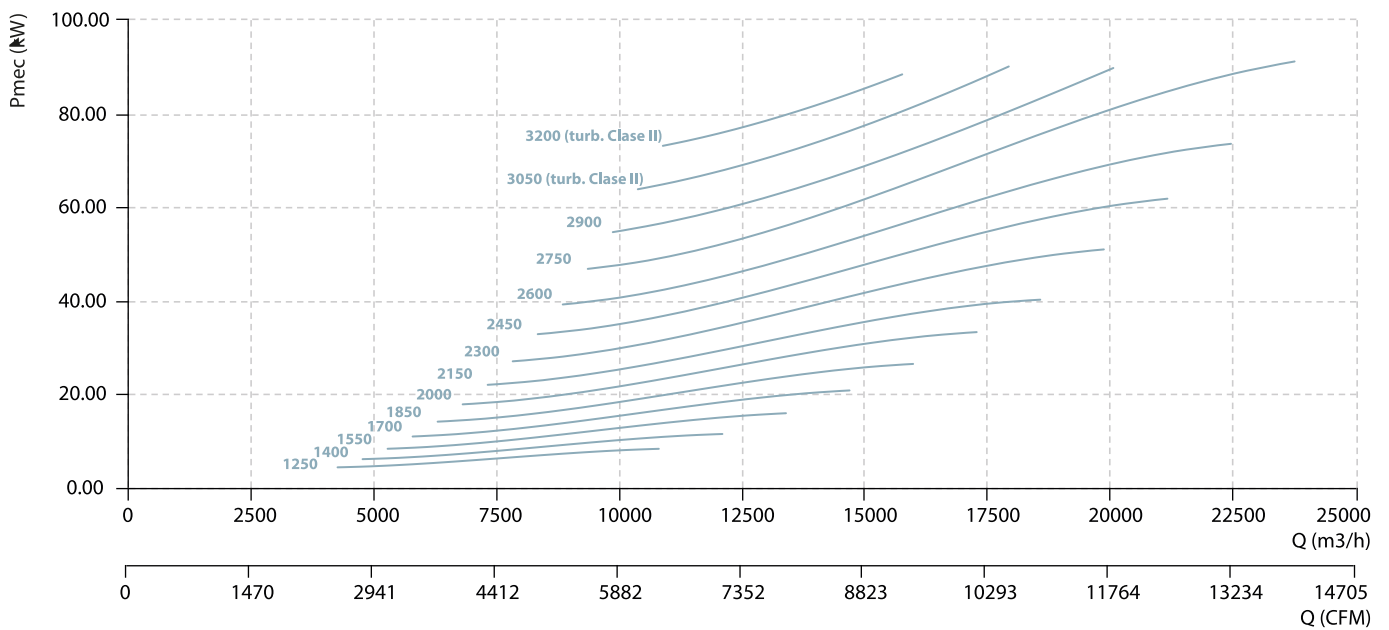
Ventiladores centrífugos de alta presión

1 AATVM 900

AIR FLOW- PRESSURE / caudal - presión



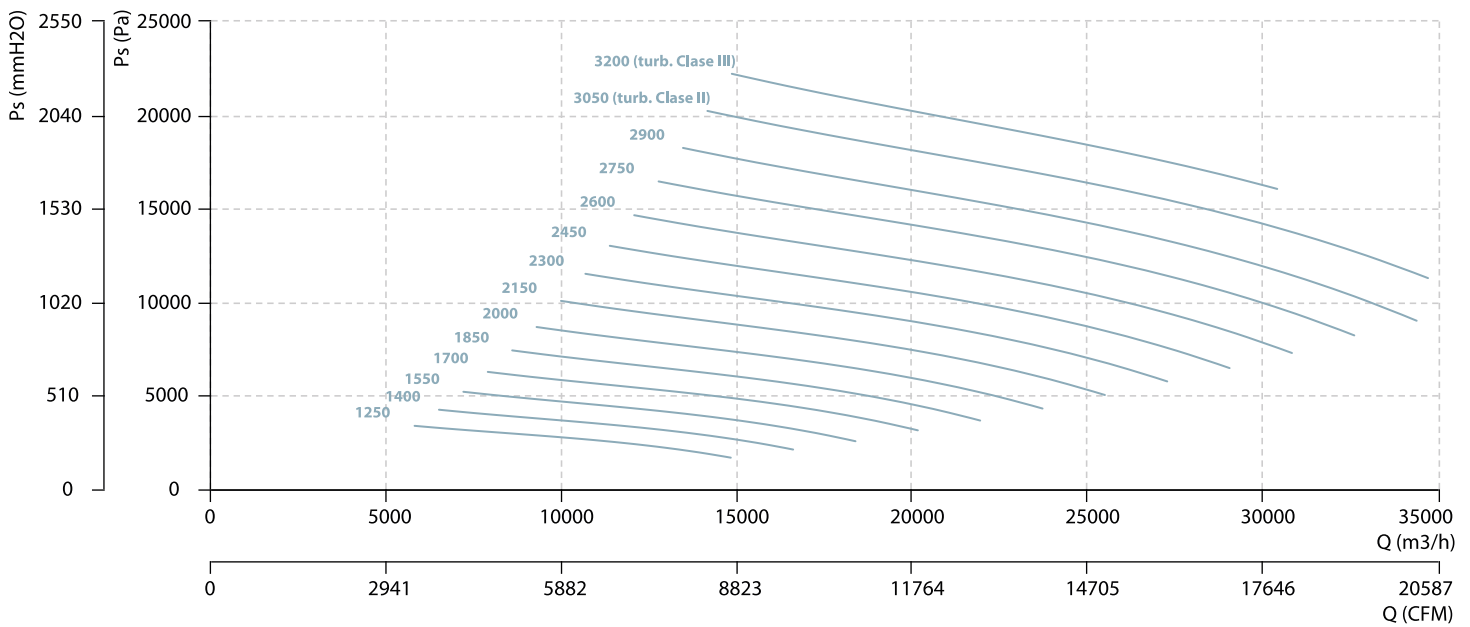
AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



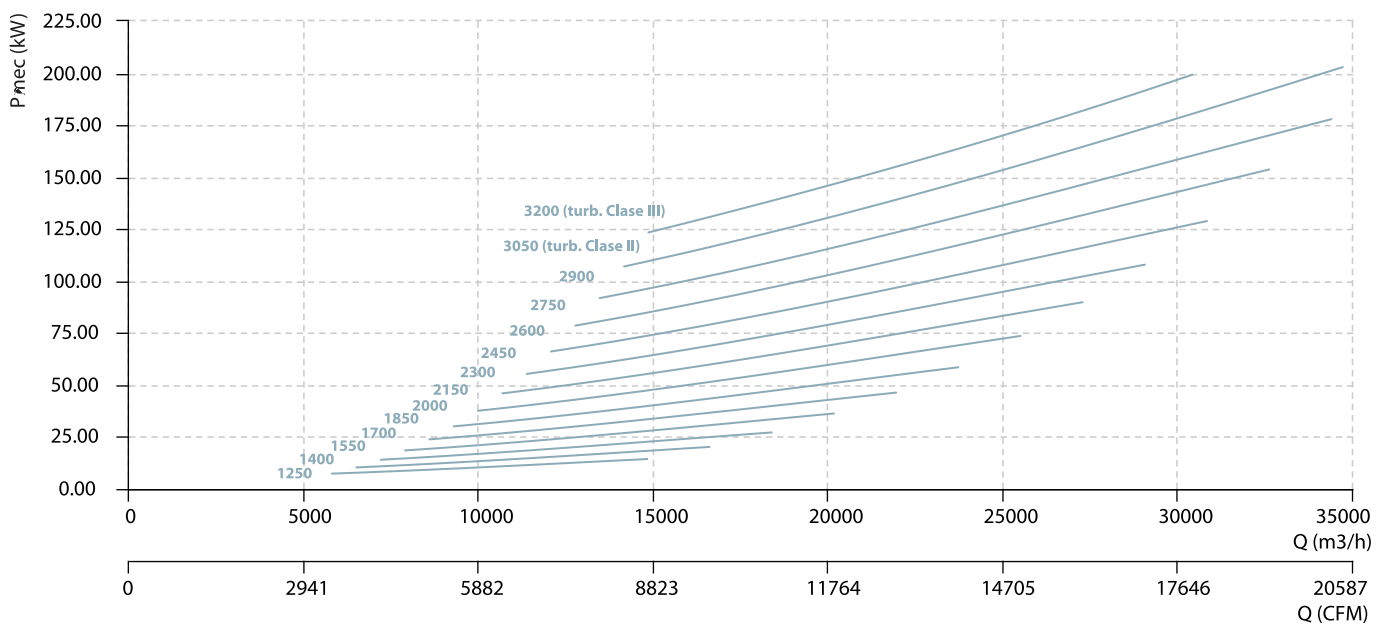


1 AATVM 1000

AIR FLOW- PRESSURE / caudal - presión



AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



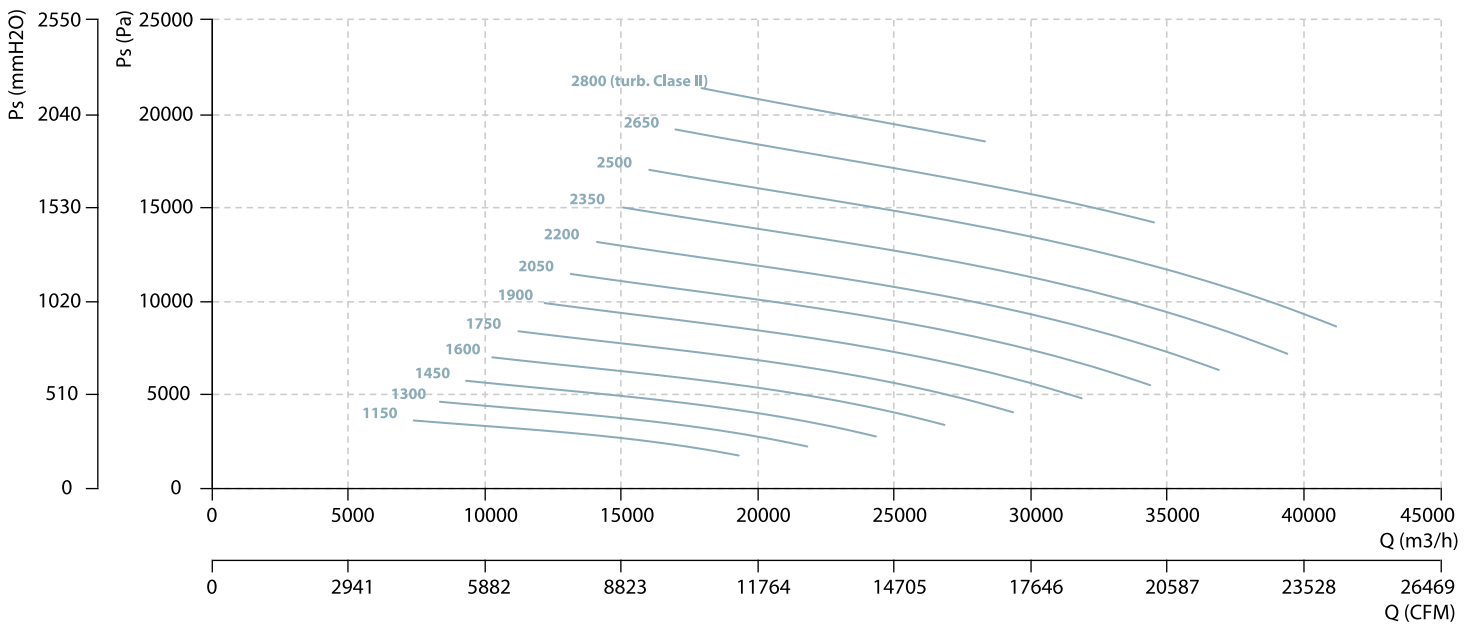
HIGH PRESSURE CENTRIFUGAL FANS



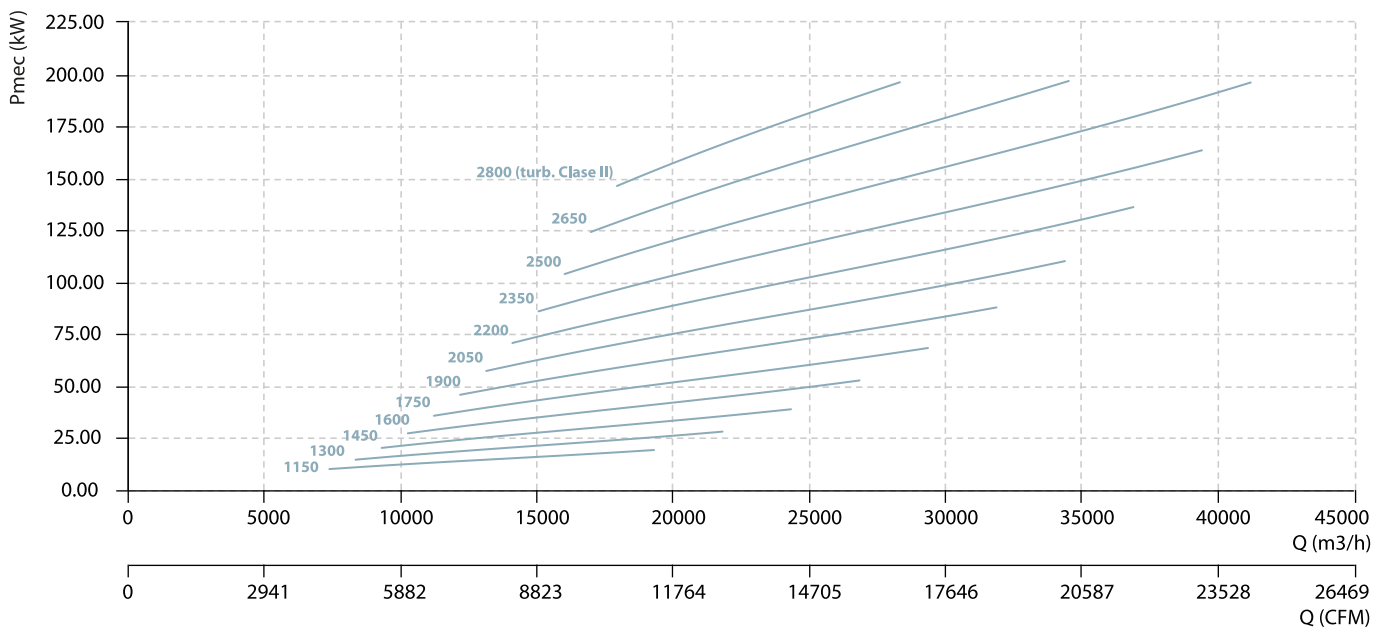
Ventiladores centrífugos de alta presión

1 AATVM 1120

AIR FLOW- PRESSURE / caudal - presión



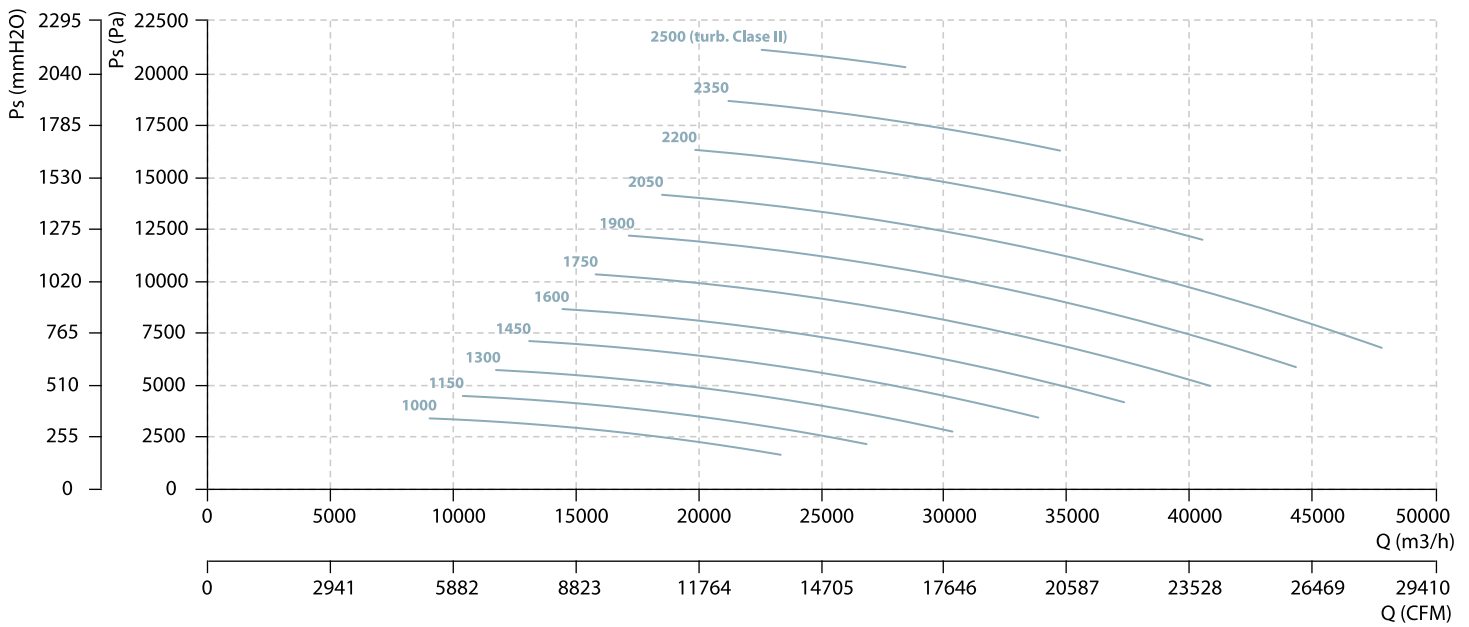
AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



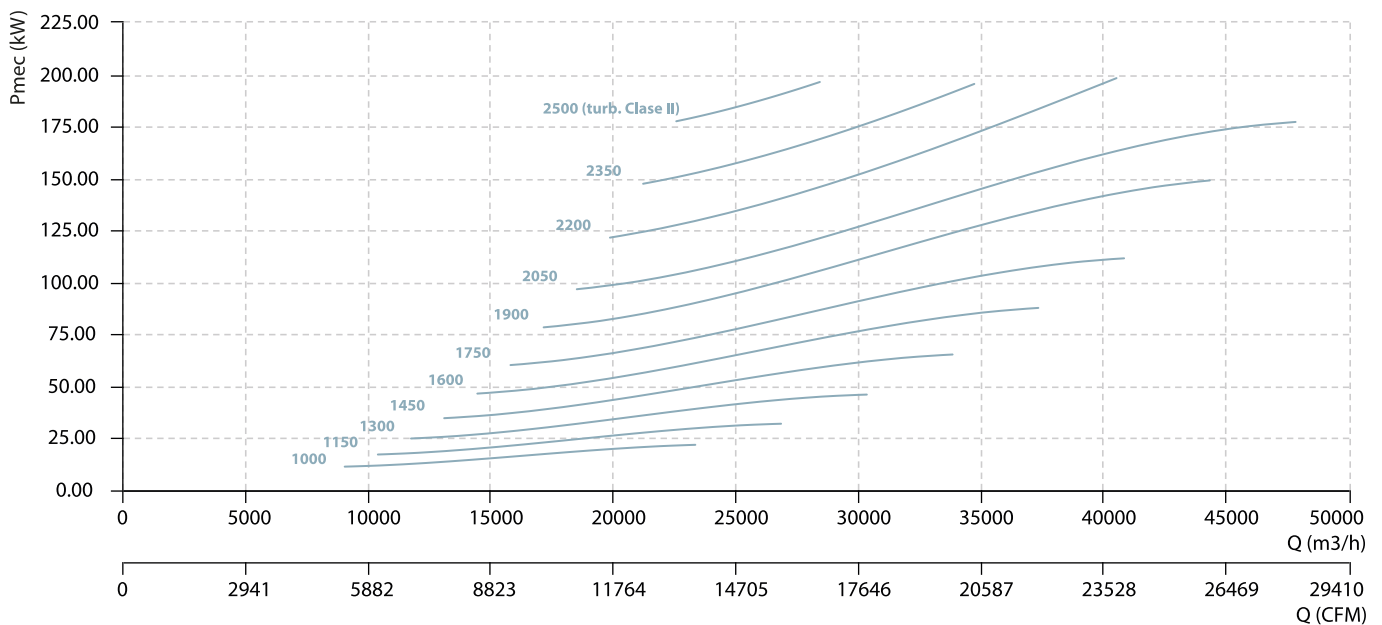


1 AATVM 1250

AIR FLOW- PRESSURE / caudal - presión



AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



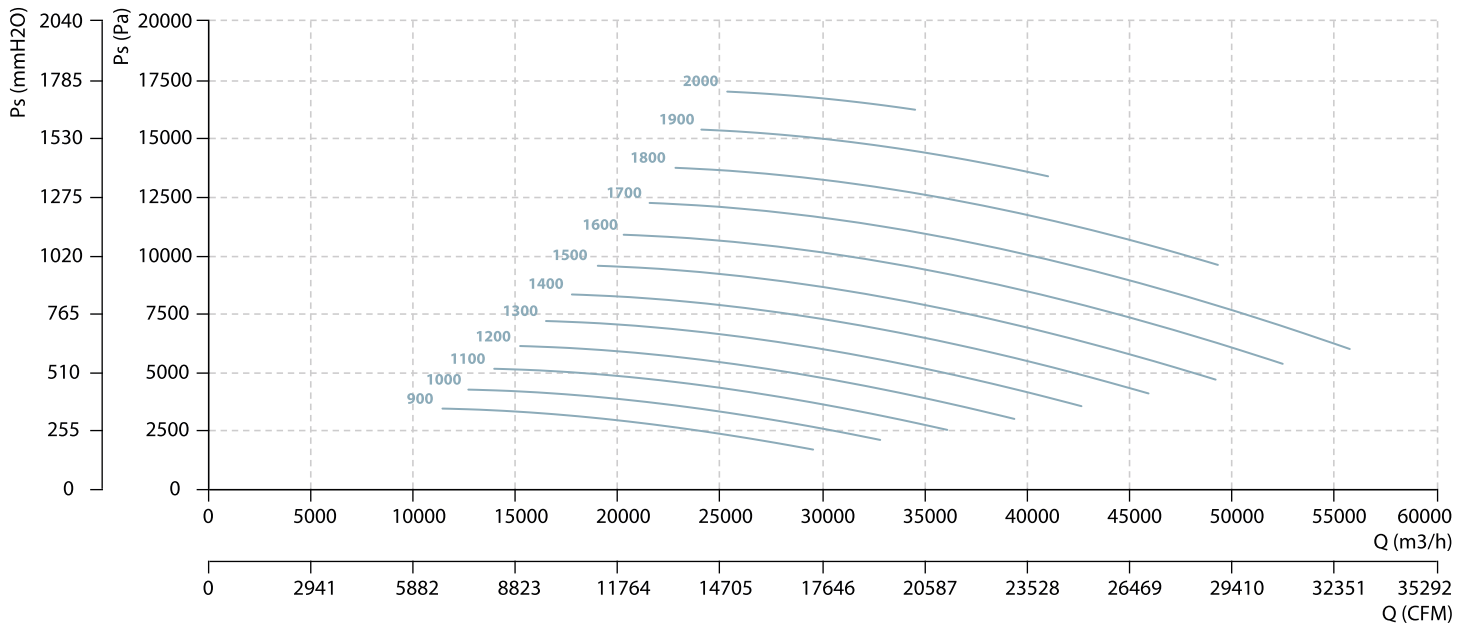
HIGH PRESSURE CENTRIFUGAL FANS



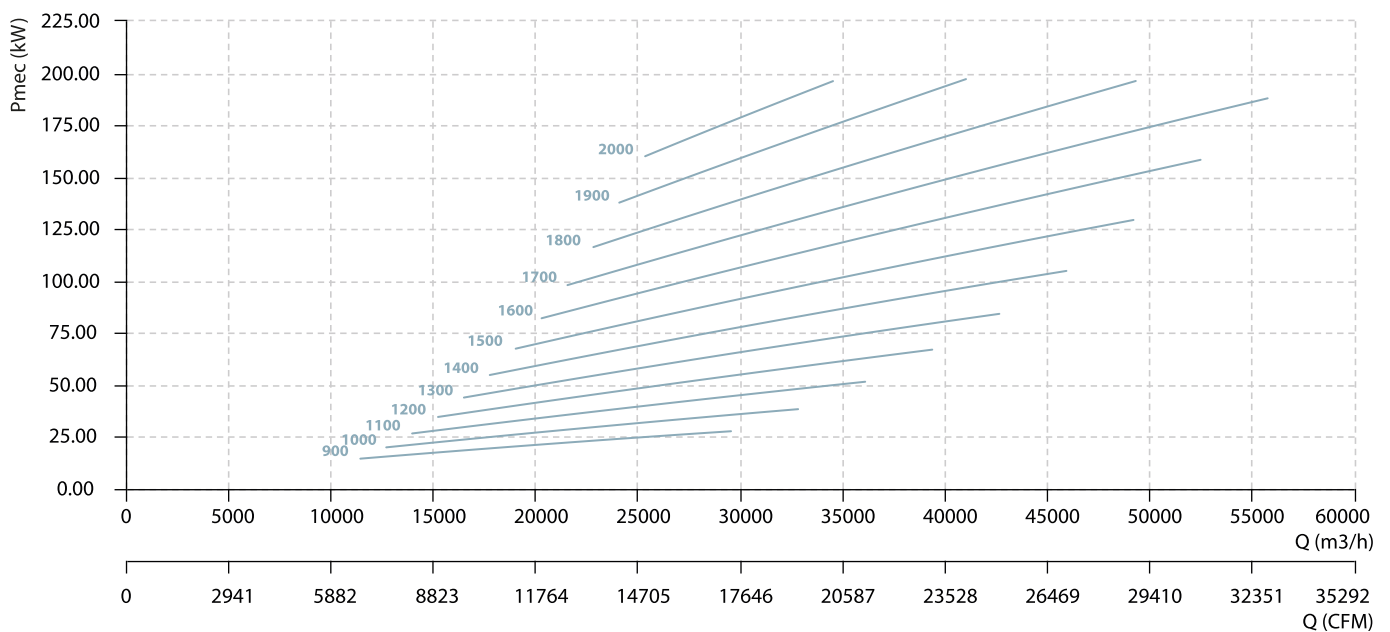
Ventiladores centrífugos de alta presión

1 AATVM 1400

AIR FLOW- PRESSURE / caudal - presión



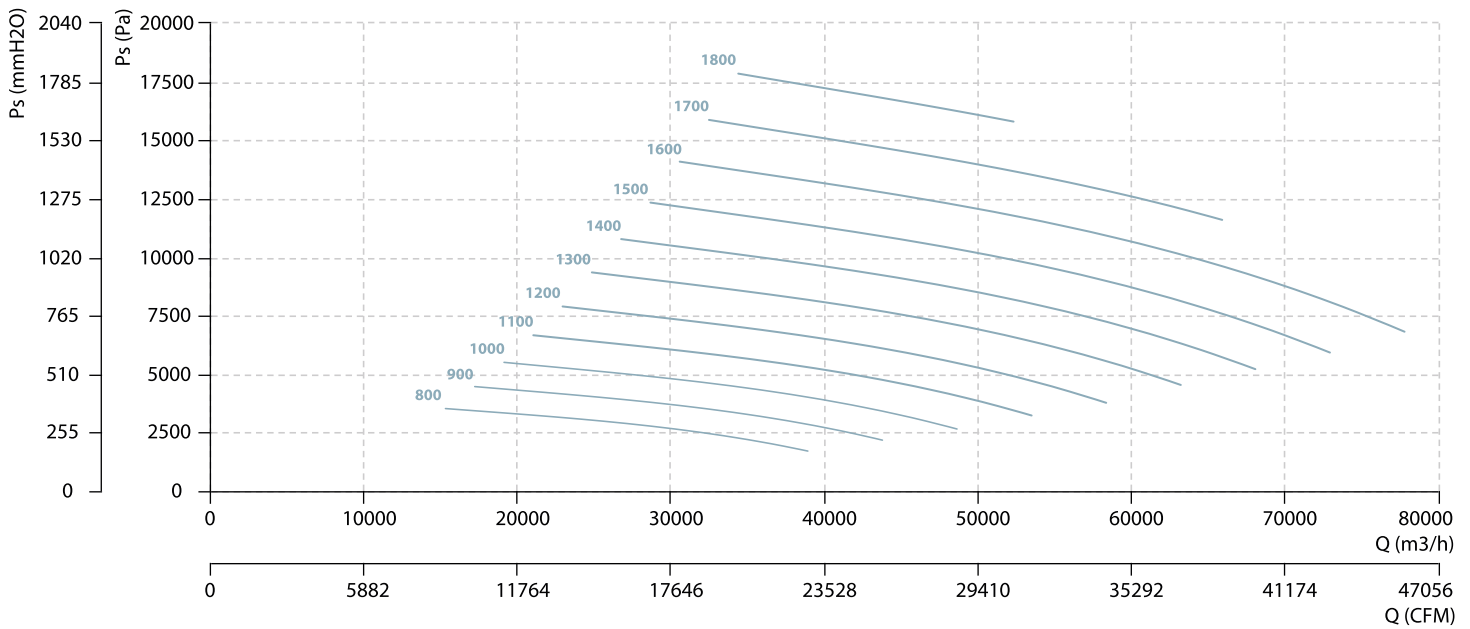
AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



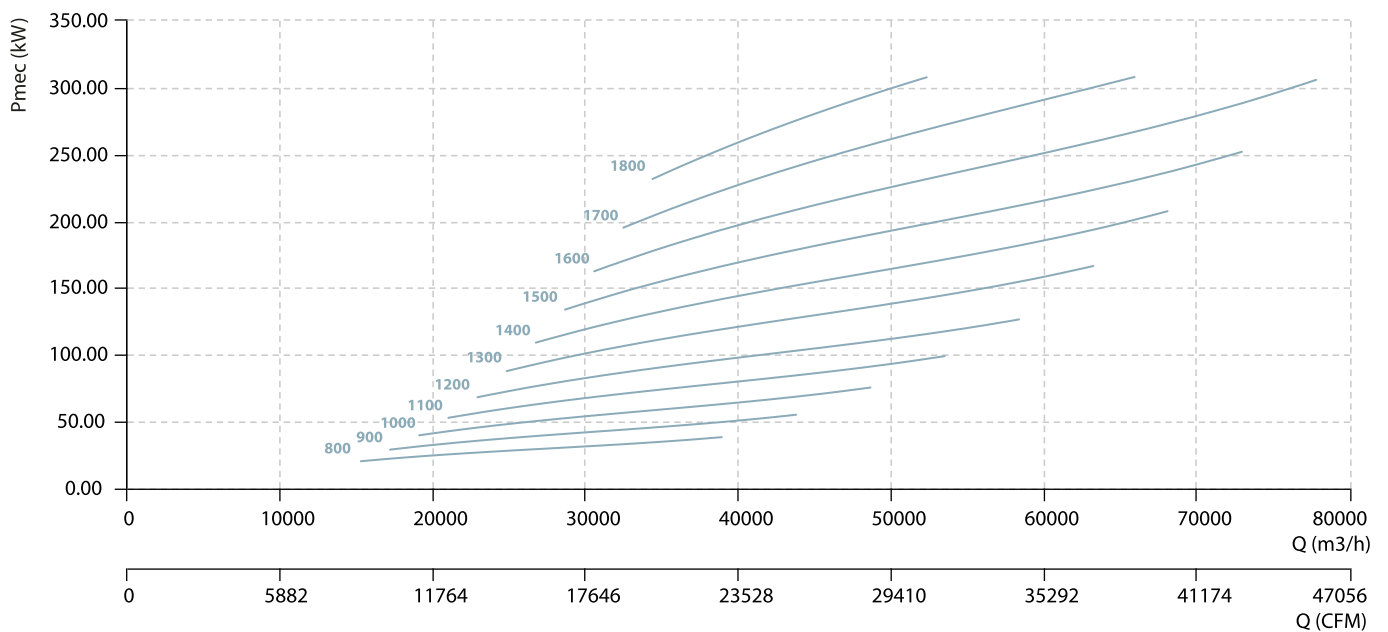


1 AATVM 1600

AIR FLOW- PRESSURE / caudal - presión



AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



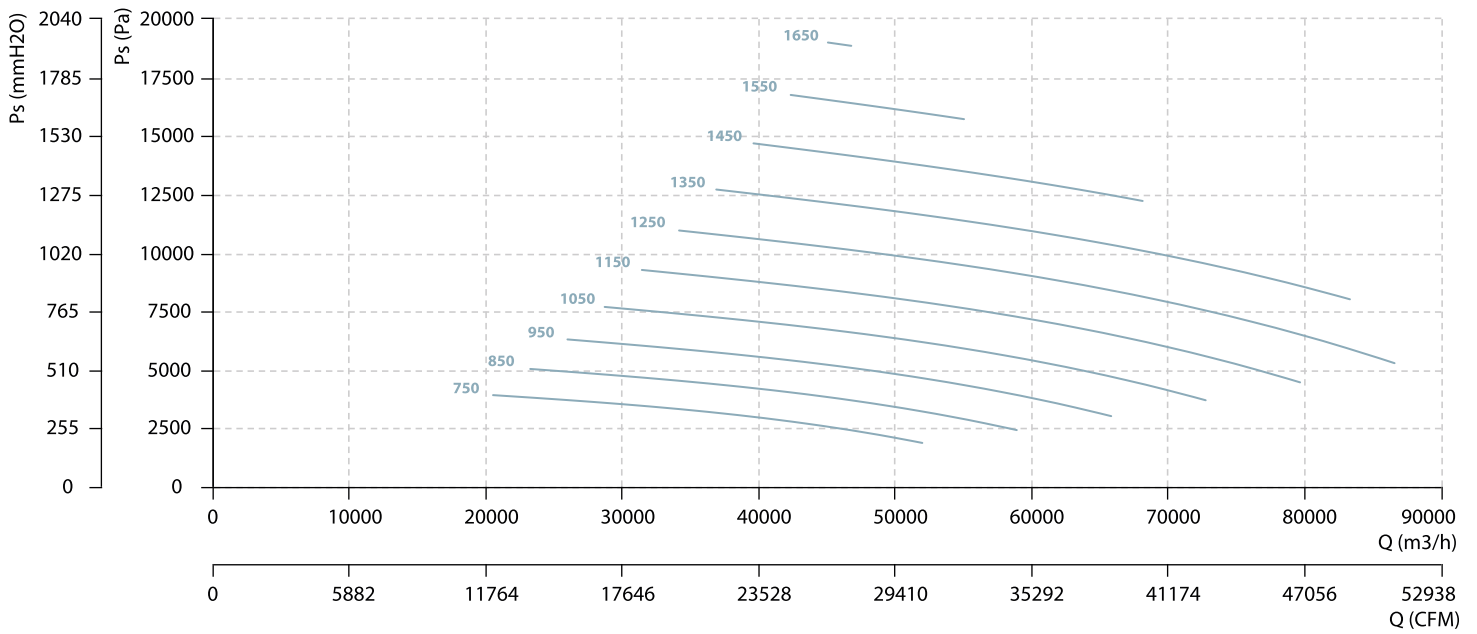
HIGH PRESSURE CENTRIFUGAL FANS



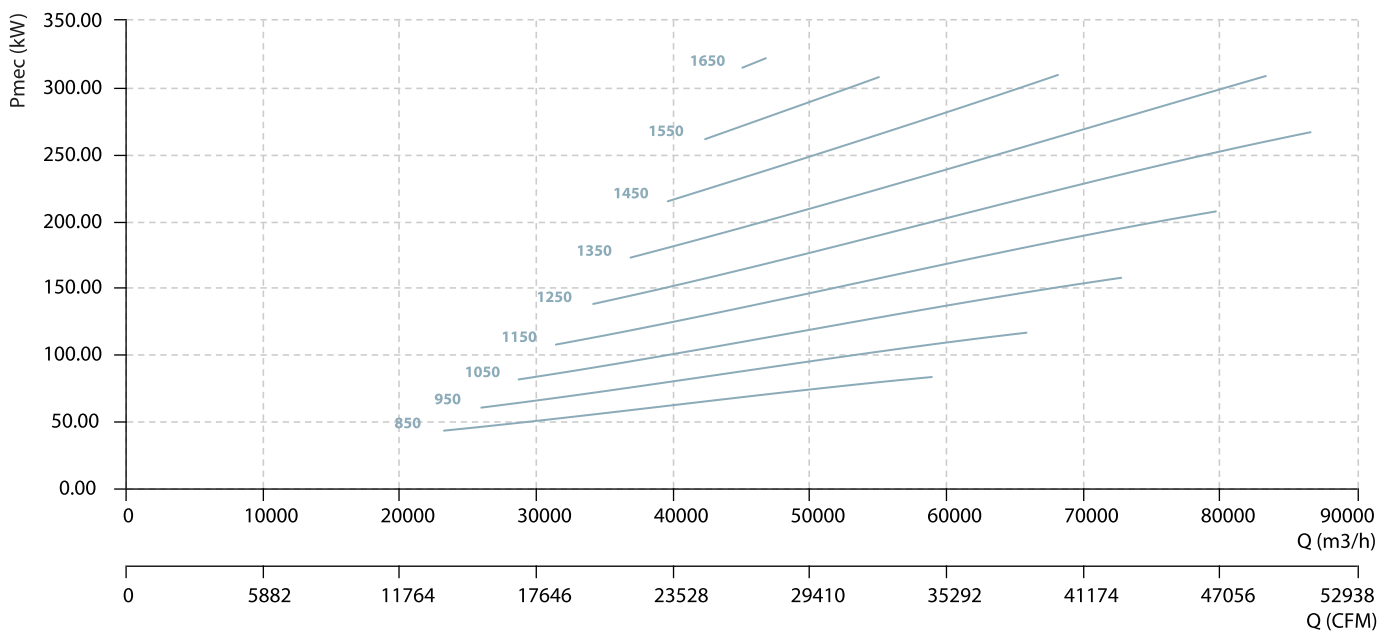
Ventiladores centrífugos de alta presión

1 AATVM 1800

AIR FLOW- PRESSURE / caudal - presión



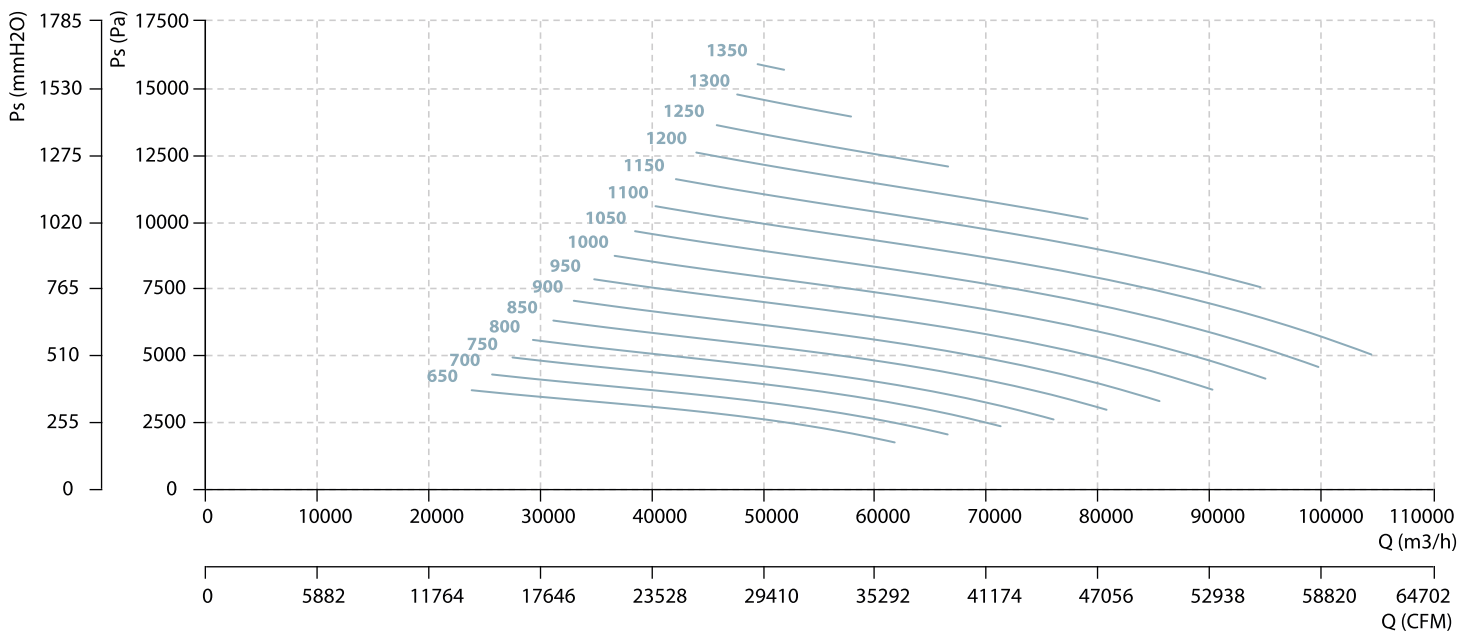
AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica



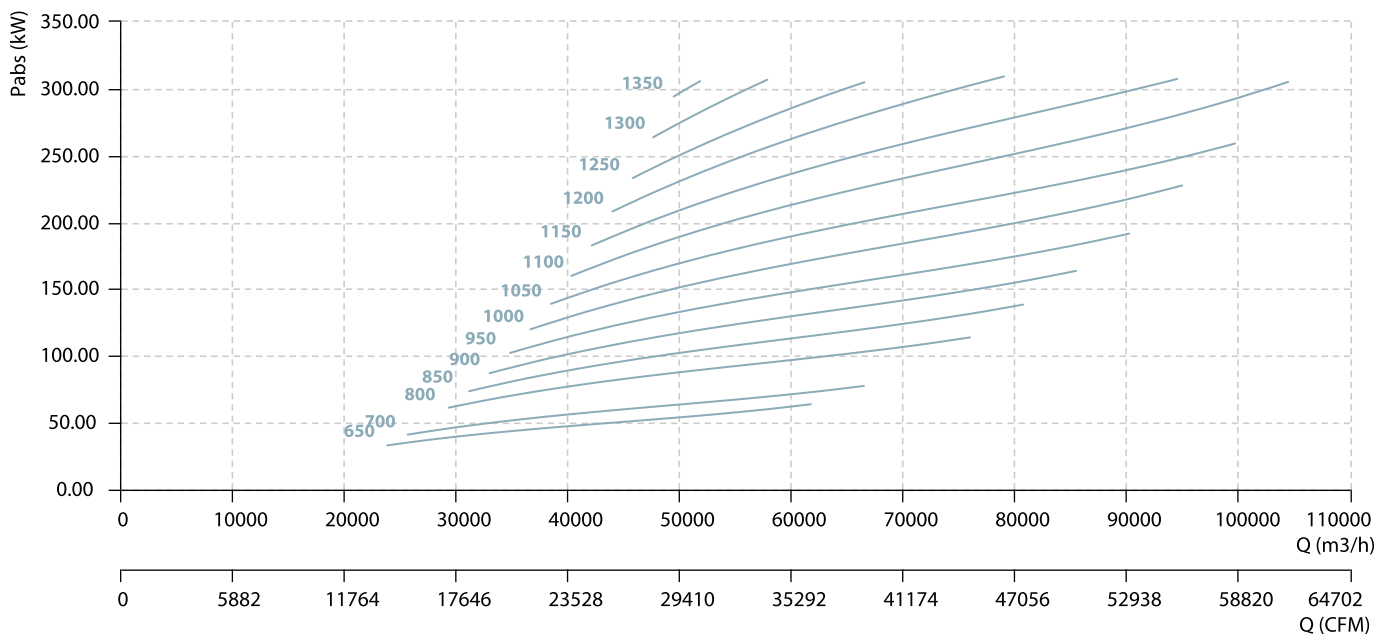


1 AATVM 2000

AIR FLOW- PRESSURE / caudal - presión



AIR FLOW- MECHANICAL POWER / caudal - potencia mecánica





SOUND POWER / potencia sonora

		SOUND POWER Lw dB (A)								
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
AATVM 350 (2750 RPM)	Inlet / Aspiración	52	64	71	75	76	71	65	62	80
AATVM 400 (2750 RPM)	Inlet / Aspiración	54	66	72	76	77	73	66	63	81
AATVM 450 (2650 RPM)	Inlet / Aspiración	58	70	76	80	81	77	70	67	85
AATVM 500 (2650 RPM)	Inlet / Aspiración	59	71	77	81	82	78	71	68	87
AATVM 560 (2550 RPM)	Inlet / Aspiración	64	76	82	86	87	82	76	73	91
AATVM 630 (2550 RPM)	Inlet / Aspiración	65	77	84	88	89	84	78	75	93
AATVM 710 (2450 RPM)	Inlet / Aspiración	67	79	86	90	91	86	80	77	95
AATVM 800 (2450 RPM)	Inlet / Aspiración	70	82	89	93	94	89	82	79	98
AATVM 900 (2200 RPM)	Inlet / Aspiración	71	83	89	93	94	90	83	80	98
AATVM 1000 (2200 RPM)	Inlet / Aspiración	73	85	92	96	97	92	86	83	101
AATVM 1120 (1950 RPM)	Inlet / Aspiración	75	87	94	98	99	94	88	85	103
AATVM 1250 (1750 RPM)	Inlet / Aspiración	76	88	94	98	99	94	88	85	103
AATVM 1400 (1550 RPM)	Inlet / Aspiración	76	88	94	98	99	94	88	85	103
AATVM 1600 (1500 RPM)	Inlet / Aspiración	78	90	97	101	102	97	91	88	106
AATVM 1800 (1450 RPM)	Inlet / Aspiración	81	93	99	103	104	100	93	90	108
AATVM 2000 (1400 RPM)	Inlet / Aspiración	83	95	101	105	106	102	95	94	111