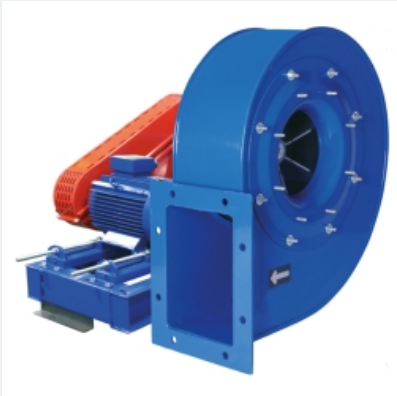
MTZM P/R



Accessories


AB


AC


AVR


AVS


BA-400


BADS


BIDS


EI


FS


INT


JE 45


SFC

MEDIUM PRESSURE FAN WITH STRIGHT IMPELLER

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 or joined housing.
• High efficiency simple straight inlet 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. IE4 motors for 75kW power or higher.
• It allows adjusting the orientation locally at models 250 to 630. Models sizes 710 to 1000 size, orientation is fixed.

• Available positions (to be indicated in case of order): LG270, LG0, LG45, LG90, LG135, LG180, LG225, LG315, RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315.
• The indicated codes correspond to the model in position LG270

APPLICATIONS:

Designed for inline installation, they are suitable for:
• Industrial applications, extraction or injection of air.
• Cooling of machines and parts.
• Clean air and pneumatic transport.
• Solid material transport and textile fibers.
• 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 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.

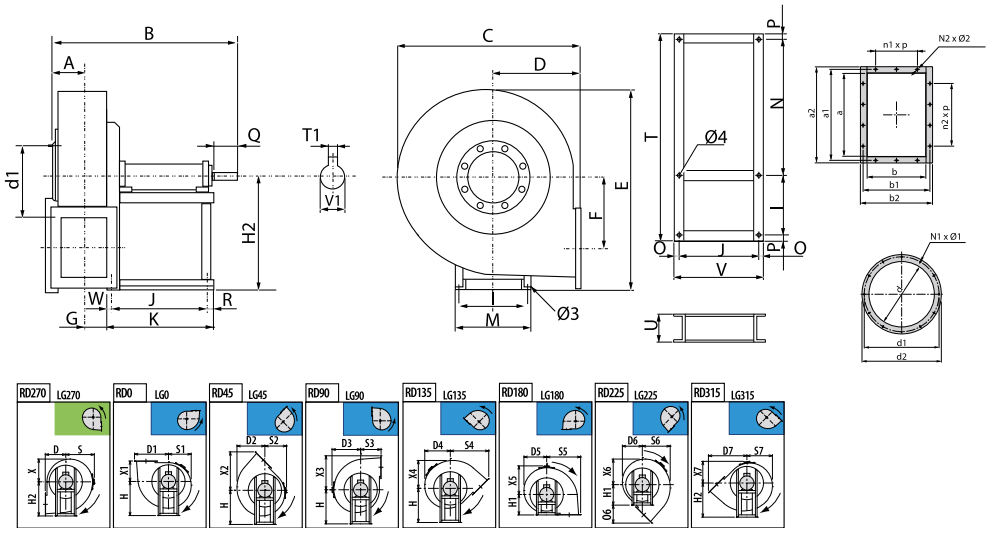
Technical data

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
5049025__R___	MTZM 250 P/R	2150rpm - 3500rpm	0,37	0,75	1.530	60	25	1
5049028__R___	MTZM 280 P/R	2150rpm - 3500rpm	0,37	1,50	2.240	63	40	1
5049031__R___	MTZM 310 P/R	2150rpm - 3500rpm	0,55	4,00	2.920	65	45	1
5049035__R___	MTZM 350 P/R	2000rpm - 3500rpm	0,55	4,00	4.210	69	75	1
5049040__R___	MTZM 400 P/R	2000rpm - 3500rpm	1,10	9,00	6.580	72	86	1
5049045__R___	MTZM 450 P/R	1450rpm - 3500rpm	2,20	15,00	9.080	75	98	1
5049050__R___	MTZM 500 P/R	1450rpm - 3100rpm	3,00	22,00	12.810	75	115	1
5049056__R___	MTZM 560 P/R	1250rpm - 2950rpm	4,00	30,00	15.030	79	200	1
5049063__R___	MTZM 630 P/R	1200rpm - 2550rpm	5,50	37,00	18.540	78	235	1
5049071__R___	MTZM 710 P/R	1000rpm - 2300rpm	5,50	45,00	22.130	78	350	1
5049080__R___	MTZM 800 P/R	1000rpm - 2000rpm	7,50	55,00	30.360	79	420	1
5049090__R___	MTZM 900 P/R	900rpm - 1700rpm	7,50	55,00	35.130	78	515	1
5049100__R___	MTZM 1000 P/R	850rpm - 1550rpm	11,00	90,00	46.750	77	732	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
MTZM 250 P/R	86	496	471	195	314	255	276	235	212
MTZM 280 P/R	95	592	505	200	353	287	305	262	231
MTZM 310 P/R	105	610	557	225	393	316	332	288	256
MTZM 350 P/R	115	783	630	255	437	359	375	325	288
MTZM 400 P/R	127	820	685	285	487	387	400	353	311
MTZM 450 P/R	141	847	765	320	542	435	445	398	354
MTZM 500 P/R	157	985	862	360	597	490	502	450	400

Model	D6	D7	E	F	G	H	H1	H2	I
MTZM 250 P/R	215	360	527	175	77	315	195	315	228
MTZM 280 P/R	226	391	606	202	86	375	200	375	288
MTZM 310 P/R	253	437	656	229	96	400	225	400	288
MTZM 350 P/R	278	489	738	253	106	450	255	450	355
MTZM 400 P/R	306	546	811	286	118	500	285	500	355
MTZM 450 P/R	342	609	914	321	132	560	320	560	355
MTZM 500 P/R	380	677	1000	355	148	600	360	600	364

Model	J	K	M	N	N1xØ1	N2xØ2	O	O6	P
MTZM 250 P/R	210	282	255	445	Nº8 M6x20	8x12	17	165	13,5
MTZM 280 P/R	284	347	324	576	Nº8 M6x20	8x12	23	191	18
MTZM 310 P/R	284	347	324	576	Nº8 M6x20	10x12	23	212	18

Model	J	K	M	N	N1xØ1	N2xØ2	O	O6	P
MTZM 350 P/R	407	485	400	610	Nº8 M8x25	10x12	28	234	22,5
MTZM 400 P/R	407	485	400	610	Nº8 M8x25	10x12	28	261	22,5
MTZM 450 P/R	407	485	400	610	Nº8 M8x25	10x12	28	289	22,5
MTZM 500 P/R	477	560	418	632	Nº8 M8x25	14x12	33	317	27

Model	Q	R	S	S1	S2	S3	S4	S5	S6
MTZM 250 P/R	40	17	276	212	215	195	360	314	255
MTZM 280 P/R	50	23	305	231	226	200	391	353	287
MTZM 310 P/R	50	23	332	256	253	225	437	393	316
MTZM 350 P/R	60	28	375	288	278	255	489	437	359
MTZM 400 P/R	80	28	400	311	306	285	546	487	387
MTZM 450 P/R	80	28	445	354	342	320	609	542	435
MTZM 500 P/R	110	33	502	400	380	360	677	597	490

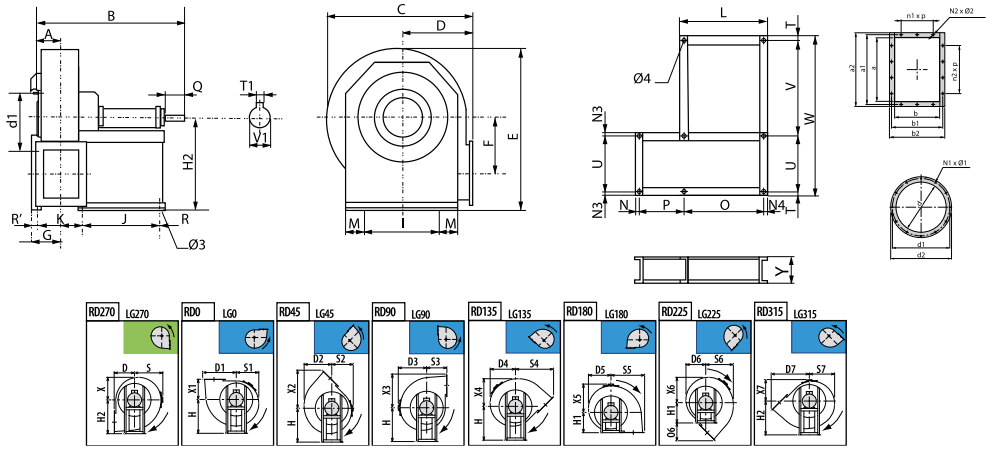
Model	S7	T	T1	U	V	V1	W	X	X1
MTZM 250 P/R	235	700	6	80	224	19	55	212	195
MTZM 280 P/R	262	900	8	100	330	24	40	231	200
MTZM 310 P/R	288	900	8	100	330	24	40	256	225
MTZM 350 P/R	325	1010	8	120	463	28	50	288	255
MTZM 400 P/R	353	1010	10	120	463	38	50	311	285
MTZM 450 P/R	398	1010	10	120	463	38	50	354	320
MTZM 500 P/R	450	1050	12	140	543	42	50	400	360

Model	X2	X3	X4	X5	X6	X7	a	a1	a2
MTZM 250 P/R	360	314	255	276	235	215	207	241	277
MTZM 280 P/R	391	353	287	305	262	226	231	265	301
MTZM 310 P/R	437	393	316	332	288	253	258	292	328
MTZM 350 P/R	489	437	359	375	325	278	288	332	368
MTZM 400 P/R	546	487	387	400	353	306	322	366	402
MTZM 450 P/R	609	542	435	445	398	342	361	405	441
MTZM 500 P/R	677	597	490	502	450	380	404	448	484

Model	b	b1	b2	d	d1	d2	n1xp	n2xp	Ø3
MTZM 250 P/R	148	182	218	185	219	250	1x112	1x112	10
MTZM 280 P/R	166	200	236	205	241	275	1x112	1x112	12
MTZM 310 P/R	185	219	255	228	265	298	1x112	2x112	12
MTZM 350 P/R	205	249	285	255	292	325	1x125	2x125	14
MTZM 400 P/R	229	273	309	285	332	365	1x125	2x125	14

Model	b	b1	b2	d	d1	d2	n1xp	n2xp	Ø3
MTZM 450 P/R	256	300	336	320	366	400	1x125	2x125	14
MTZM 500 P/R	288	332	368	360	405	440	2x125	3x125	17

Model	Ø4
MTZM 250 P/R	12
MTZM 280 P/R	15
MTZM 310 P/R	15
MTZM 350 P/R	15
MTZM 400 P/R	15
MTZM 450 P/R	15
MTZM 500 P/R	18



Model	A	B	C	D	D1	D2	D3	D4	D5
MTZM 560 P/R	177	1058	970	400	657	555	570	542	485
MTZM 630 P/R	195	1102	1080	450	733	619	630	603	550

Model	D6	D7	E	F	G	H	H1	H2	I
MTZM 560 P/R	425	747	1155	390	214	670	400	670	632
MTZM 630 P/R	476	836	1300	439	234	750	450	750	702

Model	J	K	L	M	N	N1xØ1	N2xØ2	N4	O
MTZM 560 P/R	477	410	543	30	23	Nº12 M8x25	14x12	33	477
MTZM 630 P/R	477	450	543	30	23	Nº12 M8x25	14x12	33	477

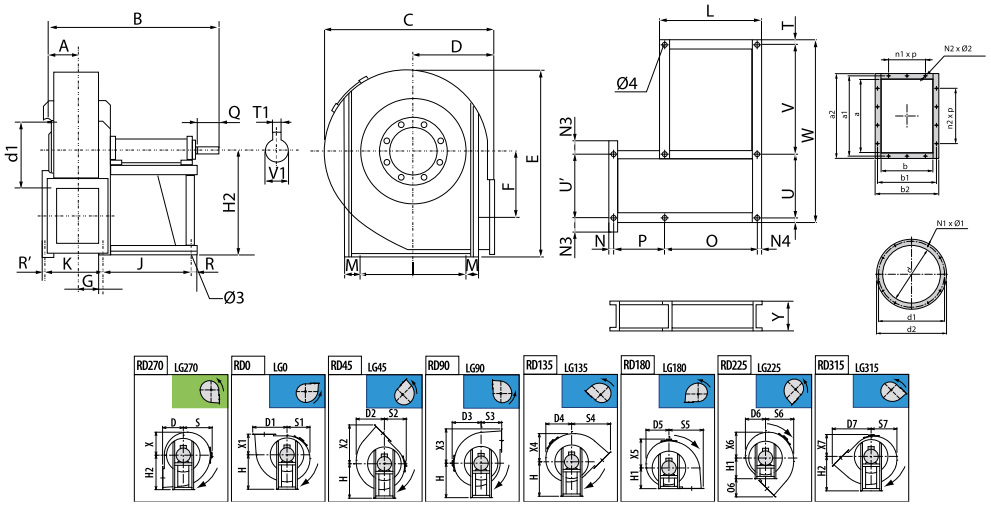
Model	O6	P	Q	R	R'	S	S1	S2	S3
MTZM 560 P/R	347	410	110	33	23	570	485	425	400
MTZM 630 P/R	386	450	110	33	23	630	550	476	450

Model	S4	S5	S6	S7	T	T1	U	V	V1
MTZM 560 P/R	747	657	555	542	30	14	632	678	48
MTZM 630 P/R	836	733	619	603	30	14	702	708	48

Model	W	X	X1	X2	X3	X4	X5	X6	X7
MTZM 560 P/R	1370	485	400	747	657	555	570	542	425
MTZM 630 P/R	1470	550	450	836	733	619	630	603	476

Model	Y	a	a1	a2	b	b1	b2	d	d1
MTZM 560 P/R	160	453	497	533	322	366	402	405	448
MTZM 630 P/R	160	507	551	587	361	405	411	455	497

Model	d2	n1xp	n2xp	Ø3	Ø4
MTZM 560 P/R	485	2x125	3x125	17	18
MTZM 630 P/R	535	2x125	3x125	17	18



Model	A	B	C	D	D1	D2	D3	D4	D5
MTZM 710 P/R	216	1241	1190	500	835	719	690	662	565
MTZM 800 P/R	241	1306	1342	560	929	811	782	749	641
MTZM 900 P/R	275	1360	1500	630	1038	905	870	835	721
MTZM 1000 P/R	308	1565	1686	710	1171	1015	976	936	814

Model	D6	D7	E	F	G	H	H1	H2	I
MTZM 710 P/R	497	944	1415	500	262	670	500	850	772
MTZM 800 P/R	562	1053	1591	560	307	755	560	950	862
MTZM 900 P/R	633	1180	1781	630	334	850	630	1060	962
MTZM 1000 P/R	718	1330	1994	710	385	950	710	1180	1056

Model	J	K	L	M	N	N1xØ1	N2xØ2	N4	O
MTZM 710 P/R	551	497	629	27	27	Nº12 M8x25	14x14	39	551
MTZM 800 P/R	551	546	629	32	47	Nº12 M8x25	14x14	39	551
MTZM 900 P/R	551	600	629	32	47	Nº12 M10x30	14x14	39	551
MTZM 1000 P/R	607	657	697	36	67	Nº16 M10x30	14x14	45	607

Model	O6	P	Q	R	R'	S	S1	S2	S3
MTZM 710 P/R	444	497	110	39	27	690	565	497	500
MTZM 800 P/R	493	546	110	39	47	782	641	562	560
MTZM 900 P/R	550	600	110	39	47	870	721	633	630
MTZM 1000 P/R	620	657	140	45	67	976	814	718	710

Model	S4	S5	S6	S7	T	T1	U	V	V1
MTZM 710 P/R	944	835	719	662	27	14	772	807	48
MTZM 800 P/R	1053	929	811	749	32	16	862	842	55
MTZM 900 P/R	1180	1038	905	835	32	16	962	987	55
MTZM 1000 P/R	1330	1171	1015	936	36	18	1056	1036	65

Model	W	X	X1	X2	X3	X4	X5	X6	X7
MTZM 710 P/R	1633	565	500	944	835	719	690	662	497
MTZM 800 P/R	1768	641	560	1053	929	811	782	749	562
MTZM 900 P/R	2013	721	630	1180	1038	905	870	835	633
MTZM 1000 P/R	2164	814	710	1330	1171	1015	976	936	718

Model	Y	a	a1	a2	b	b1	b2	d	d1
MTZM 710 P/R	180	569	629	669	404	464	504	505	551
MTZM 800 P/R	180	638	698	738	453	513	553	565	629
MTZM 900 P/R	180	715	775	815	507	567	607	635	698
MTZM 1000 P/R	200	801	871	921	569	639	689	715	775

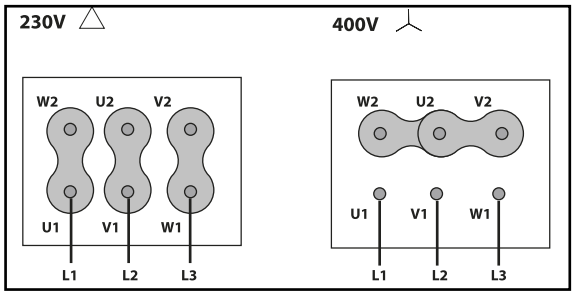
Model	d2	n1xp	n2xp	Ø3	Ø4
MTZM 710 P/R	585	2x160	3x160	19	20
MTZM 800 P/R	665	2x160	3x160	19	20

Model	d2	n1xp	n2xp	Ø3	Ø4
MTZM 900 P/R	735	2x160	4x160	19	20
MTZM 1000 P/R	815	2x200	3x200	19	20

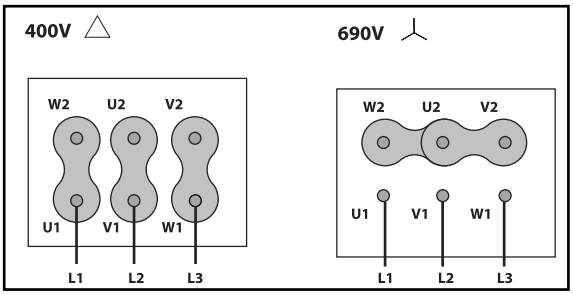
Wiring diagram

Wiring diagram Nº 1

230/400V



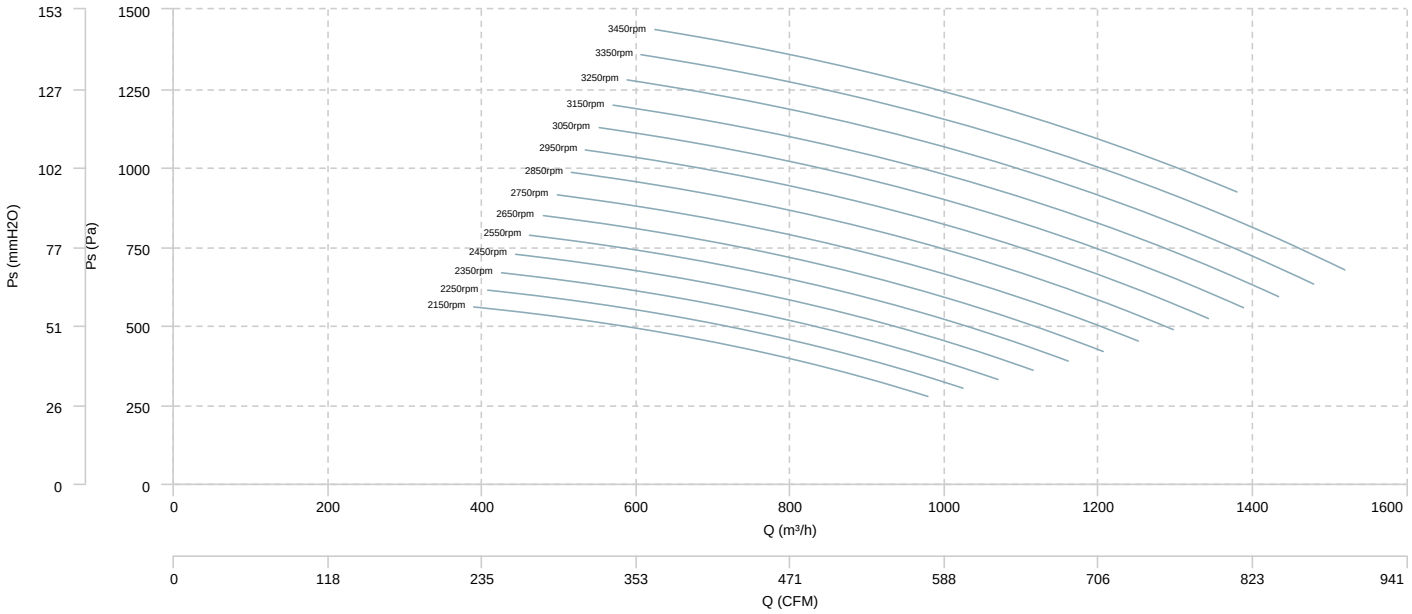
400/690V



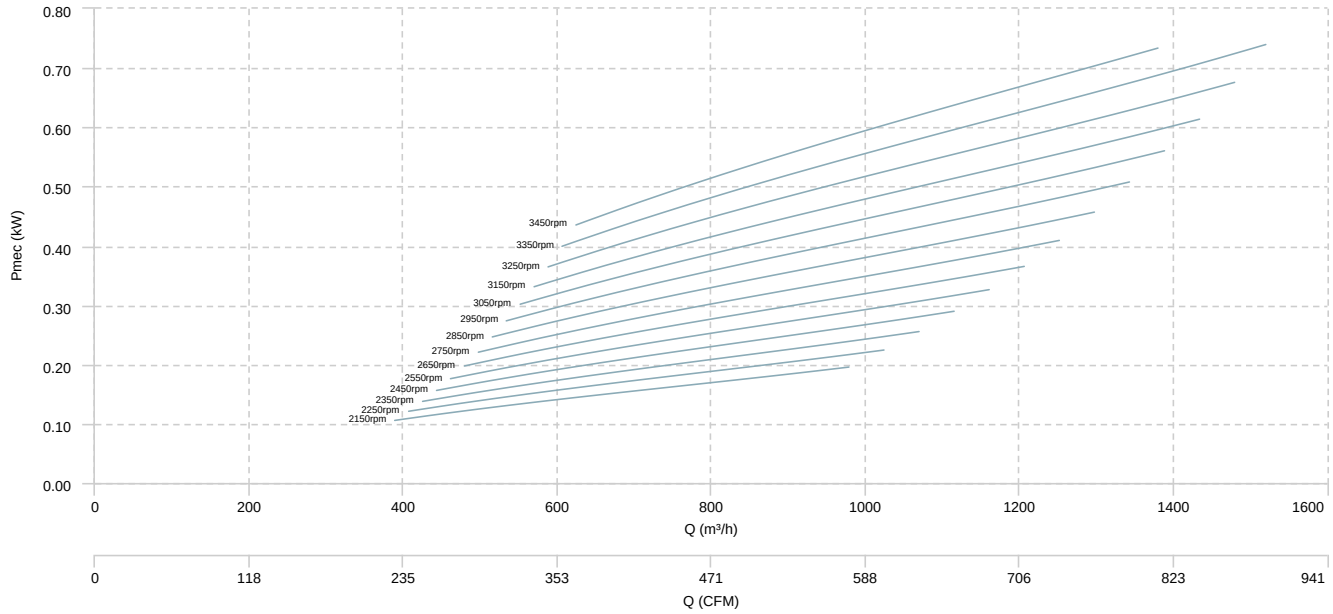
CHARACTERISCTIC CURVE

MTZM 250 P/R

AIR FLOW - PRESSURE

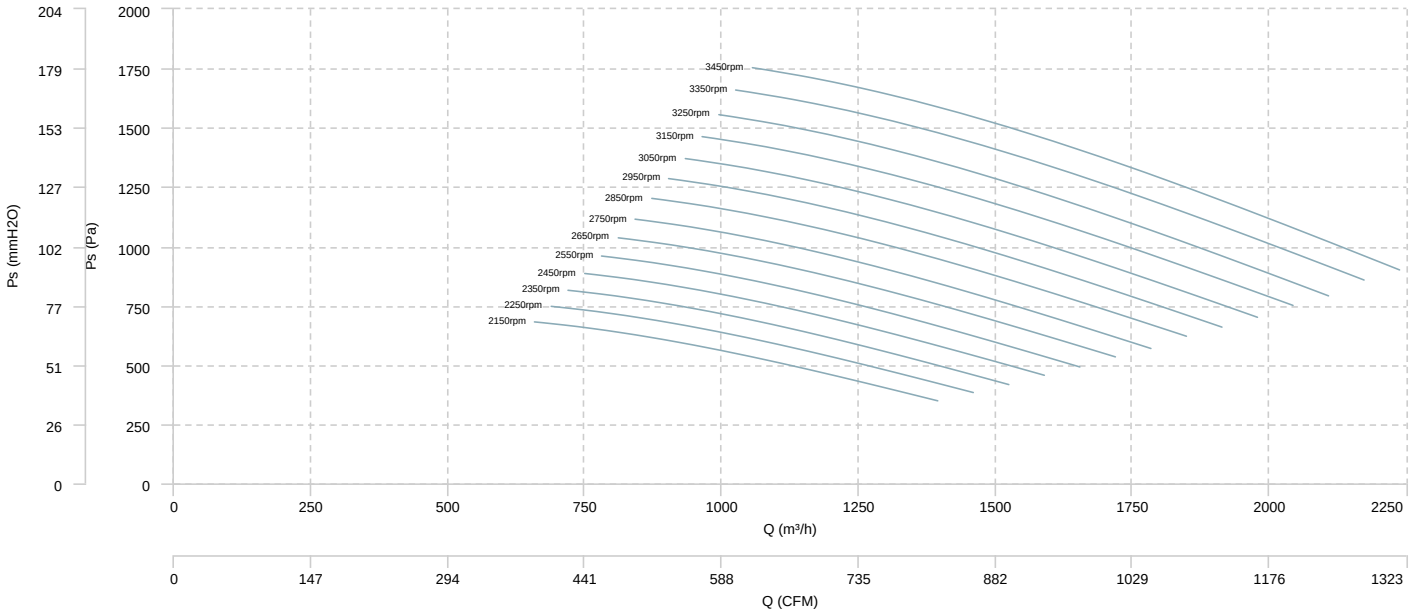


AIR FLOW - MECHANICAL POWER

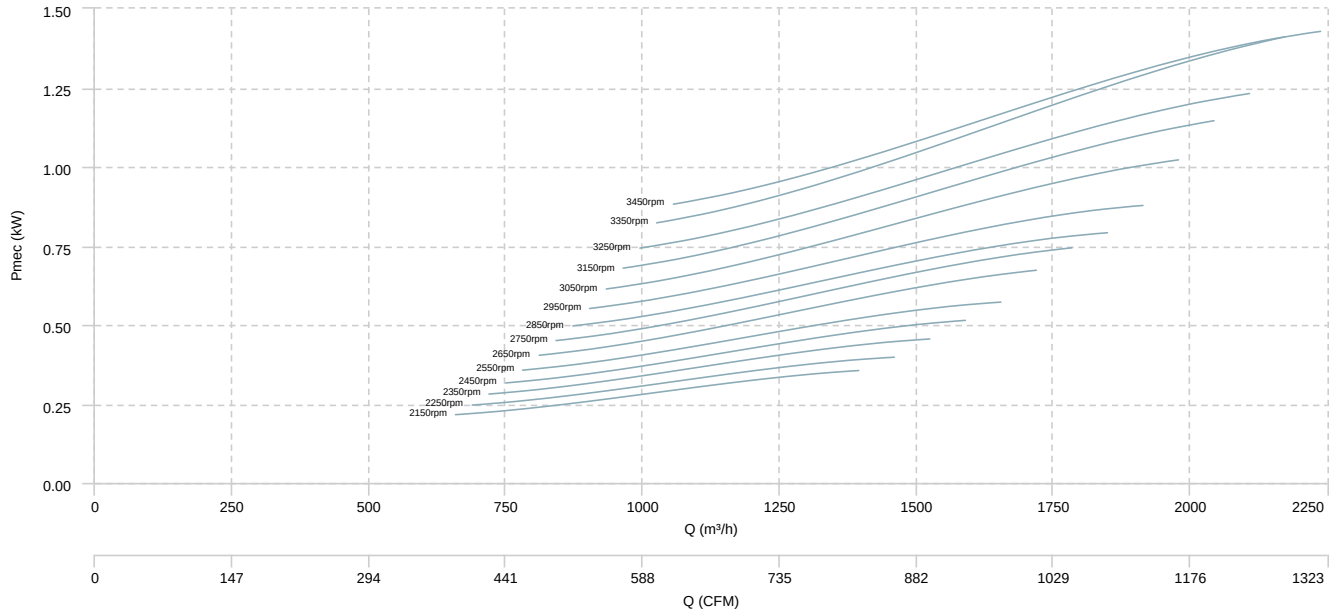


MTZM 280 P/R

AIR FLOW - PRESSURE

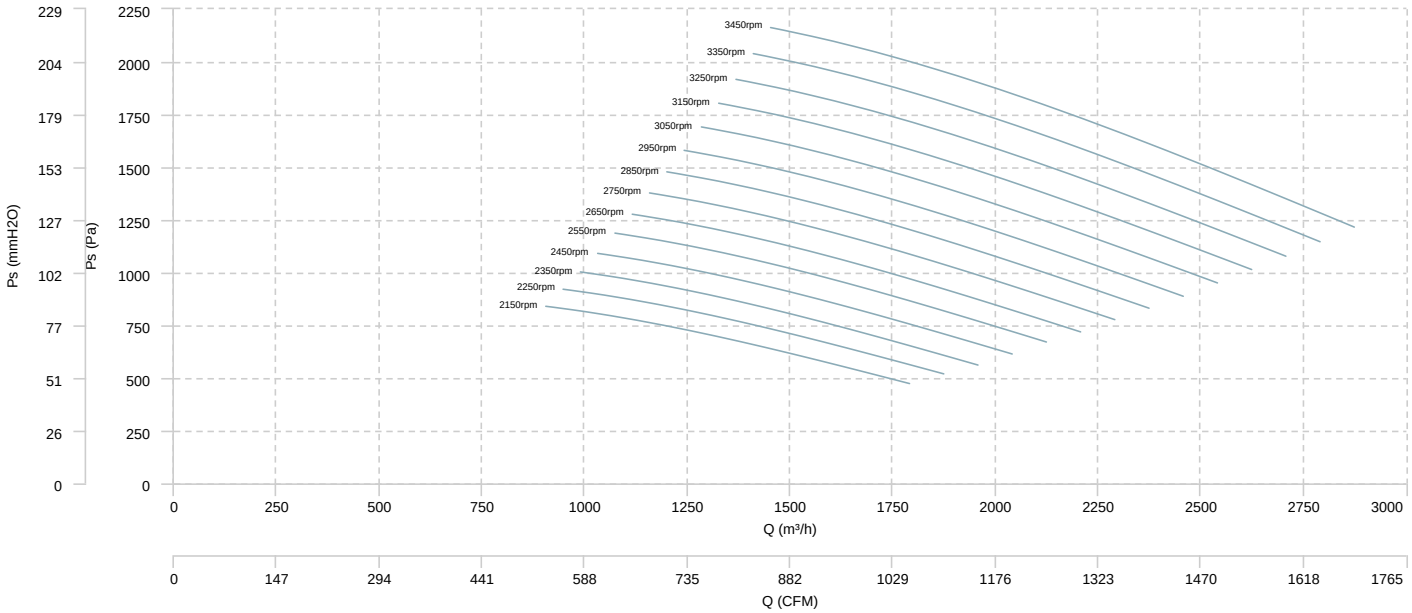


AIR FLOW - MECHANICAL POWER

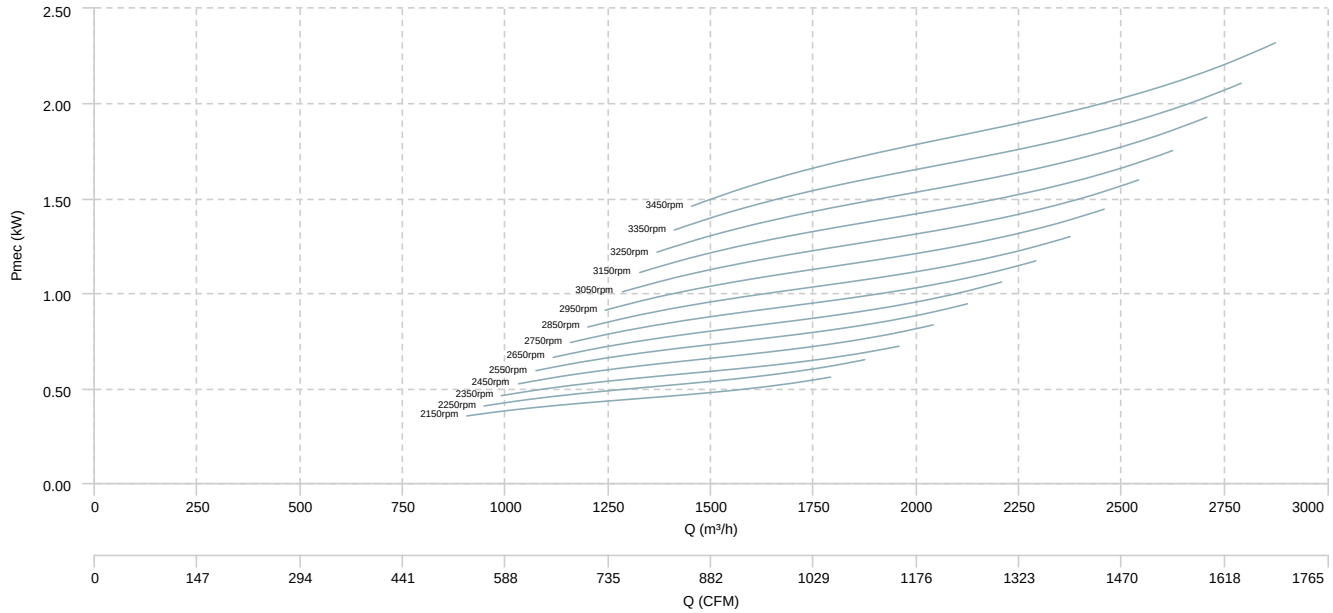


MTZM 310 P/R

AIR FLOW - PRESSURE

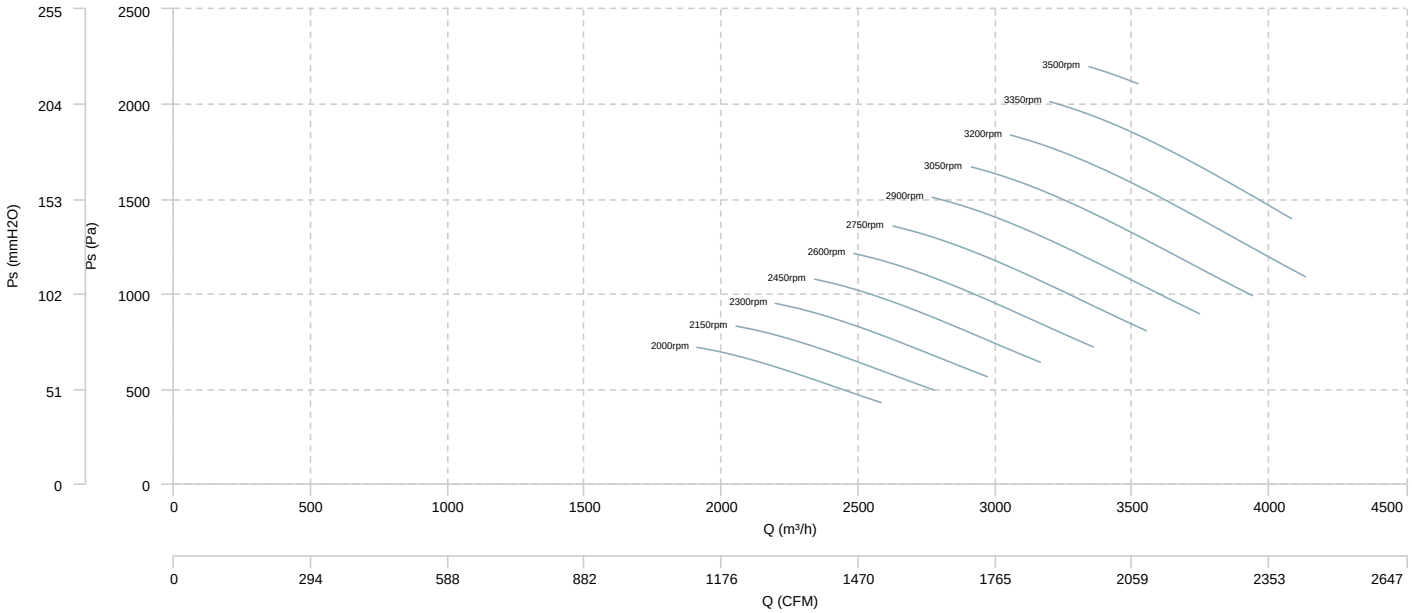


AIR FLOW - MECHANICAL POWER

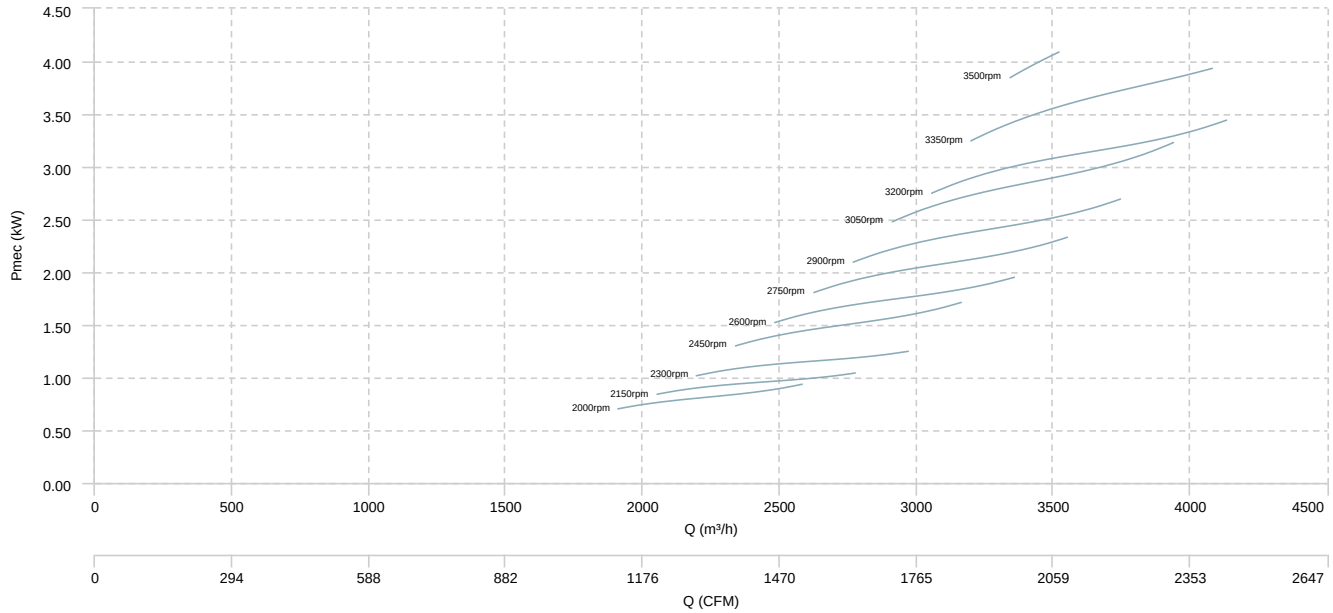


MTZM 350 P/R

AIR FLOW - PRESSURE

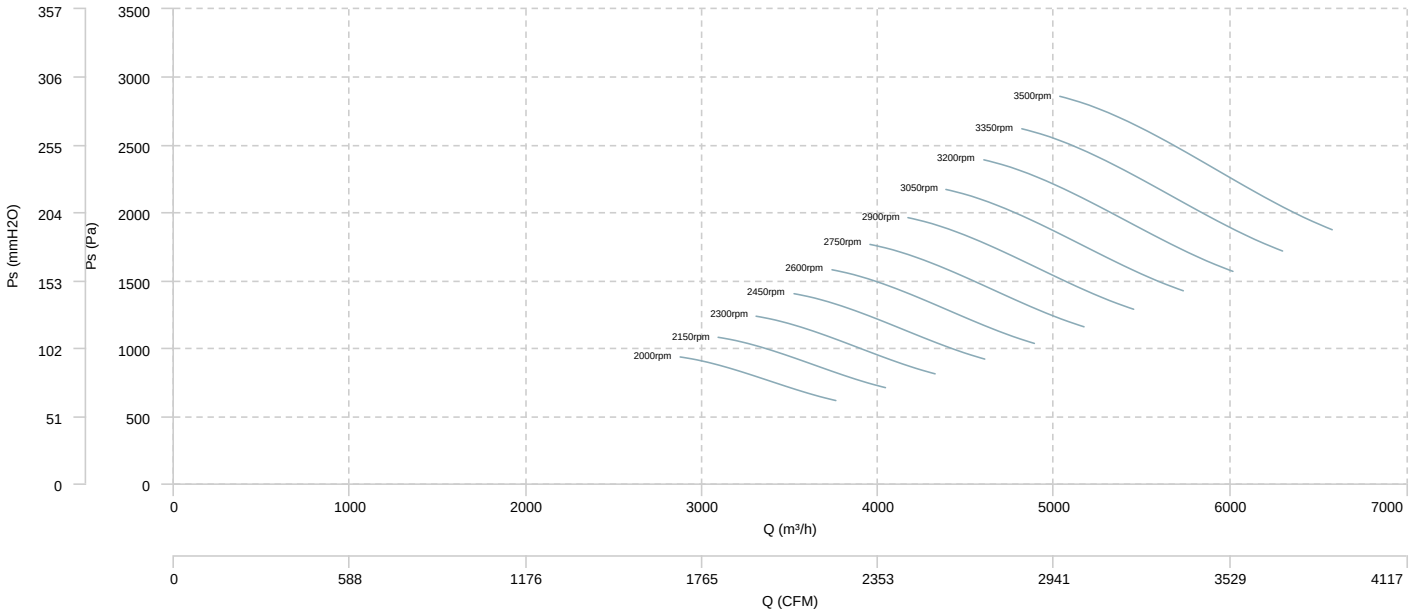


AIR FLOW - MECHANICAL POWER

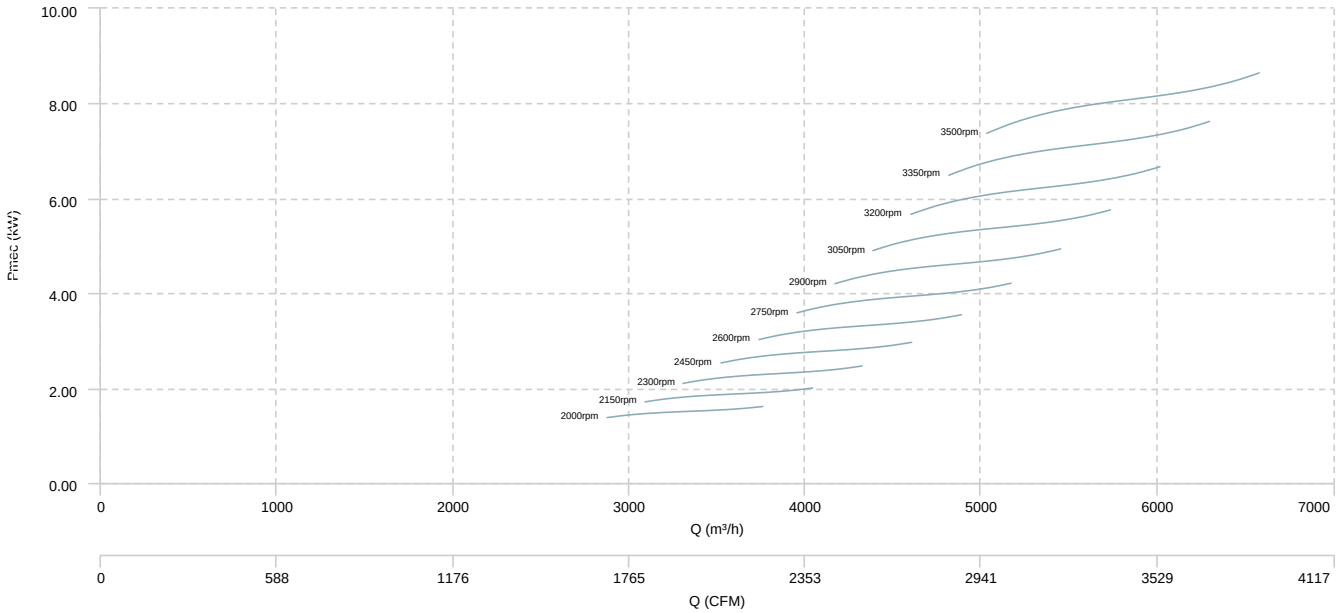


MTZM 400 P/R

AIR FLOW - PRESSURE

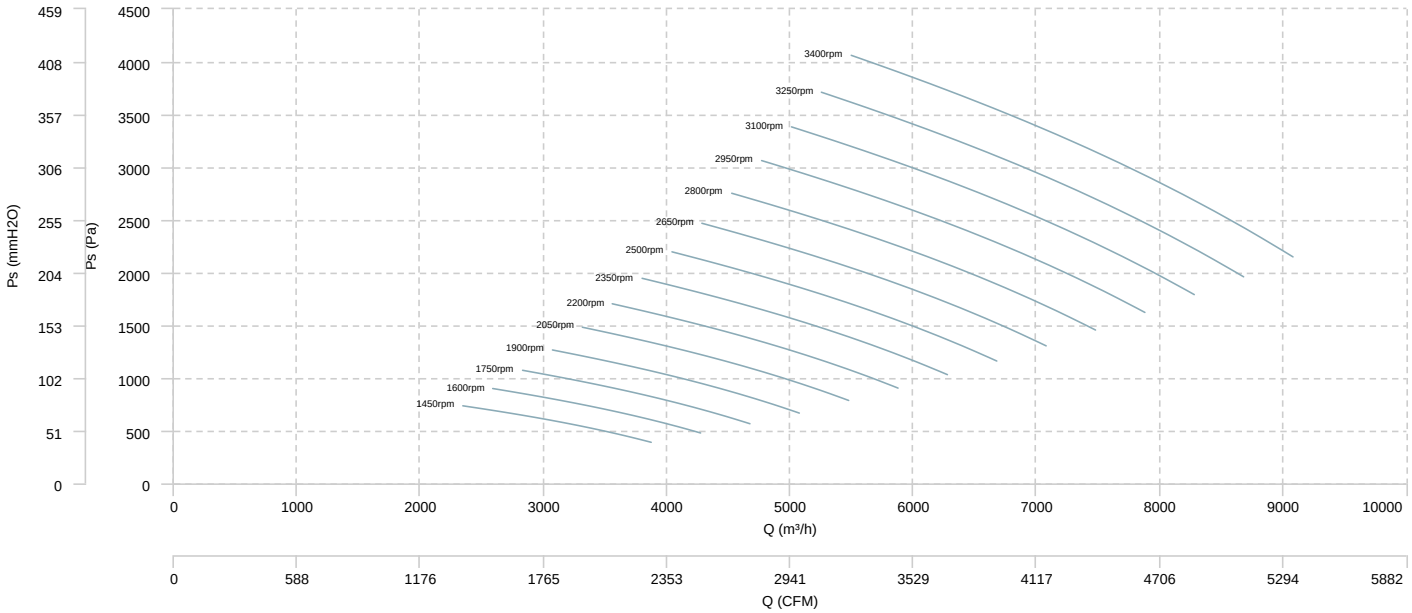


AIR FLOW - MECHANICAL POWER

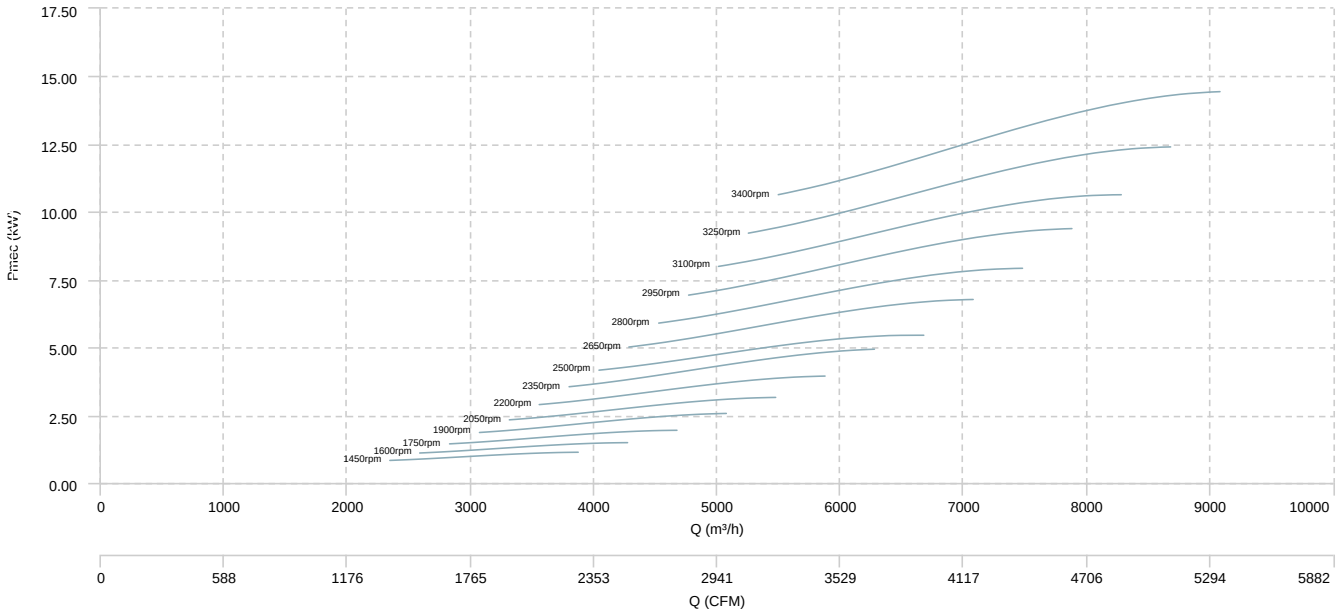


MTZM 450 P/R

AIR FLOW - PRESSURE

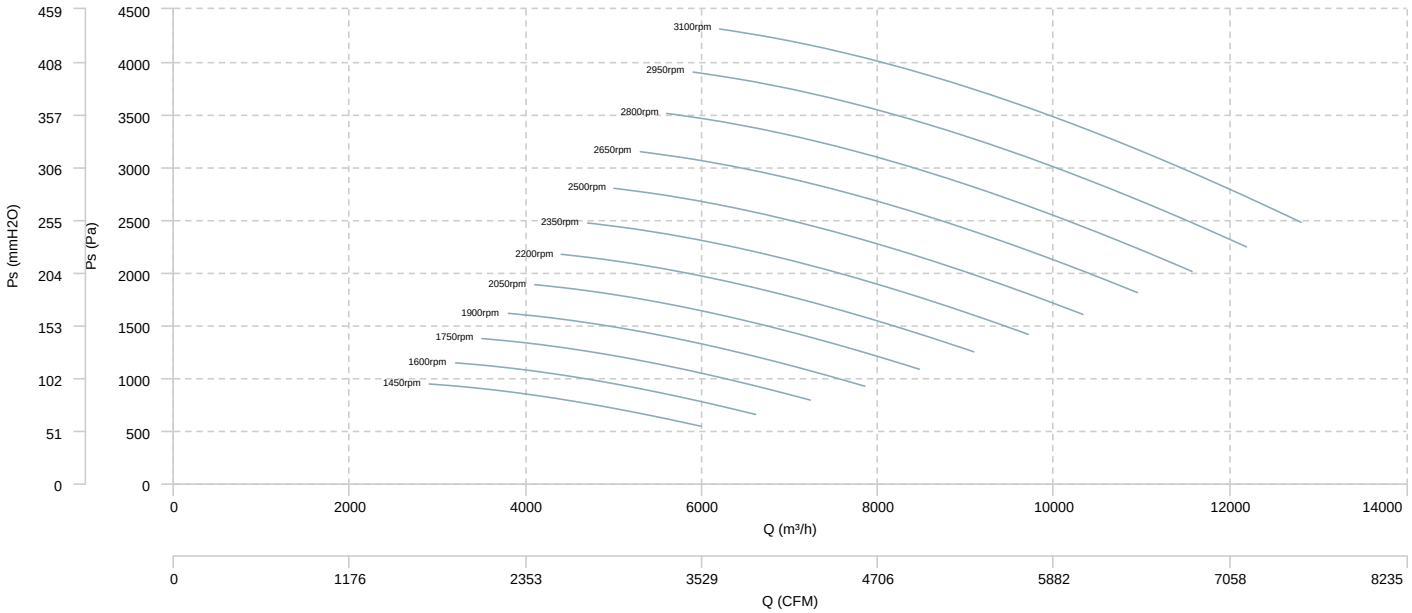


AIR FLOW - MECHANICAL POWER

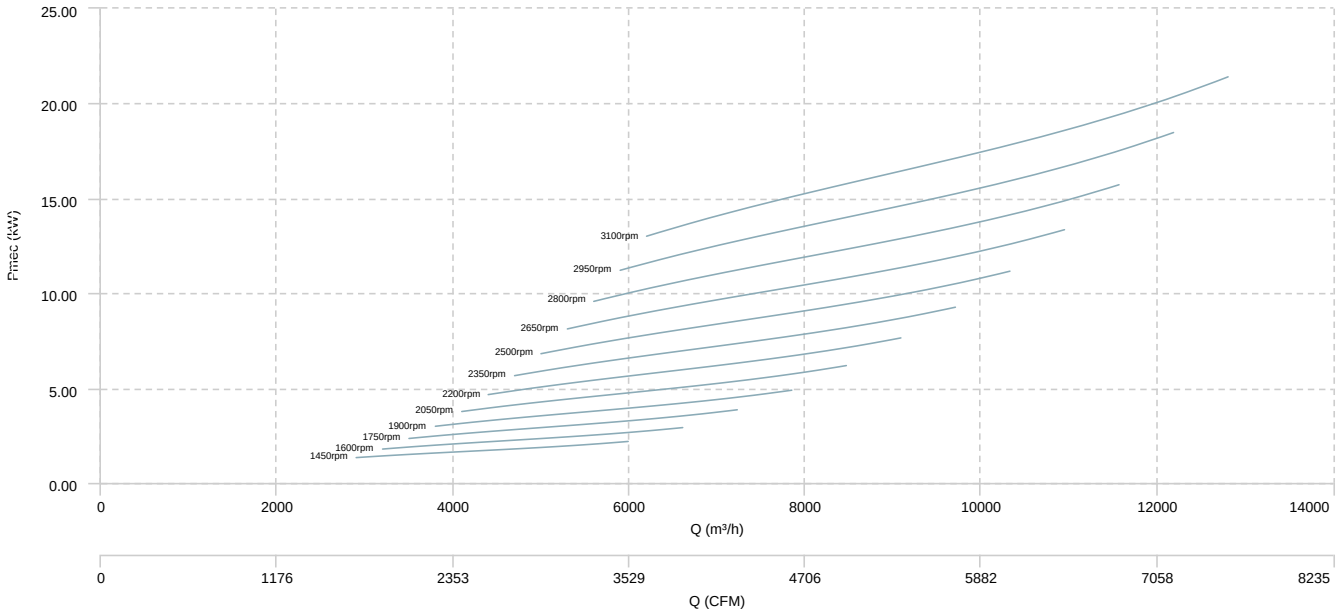


MTZM 500 P/R

AIR FLOW - PRESSURE

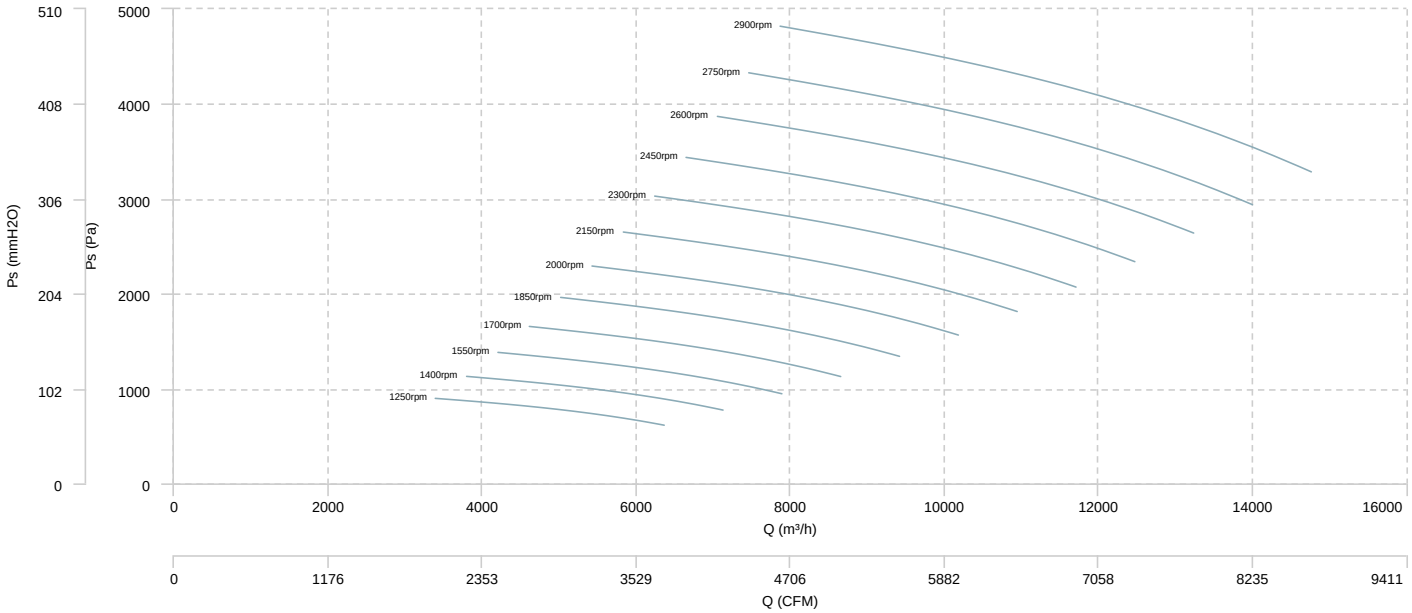


AIR FLOW - MECHANICAL POWER

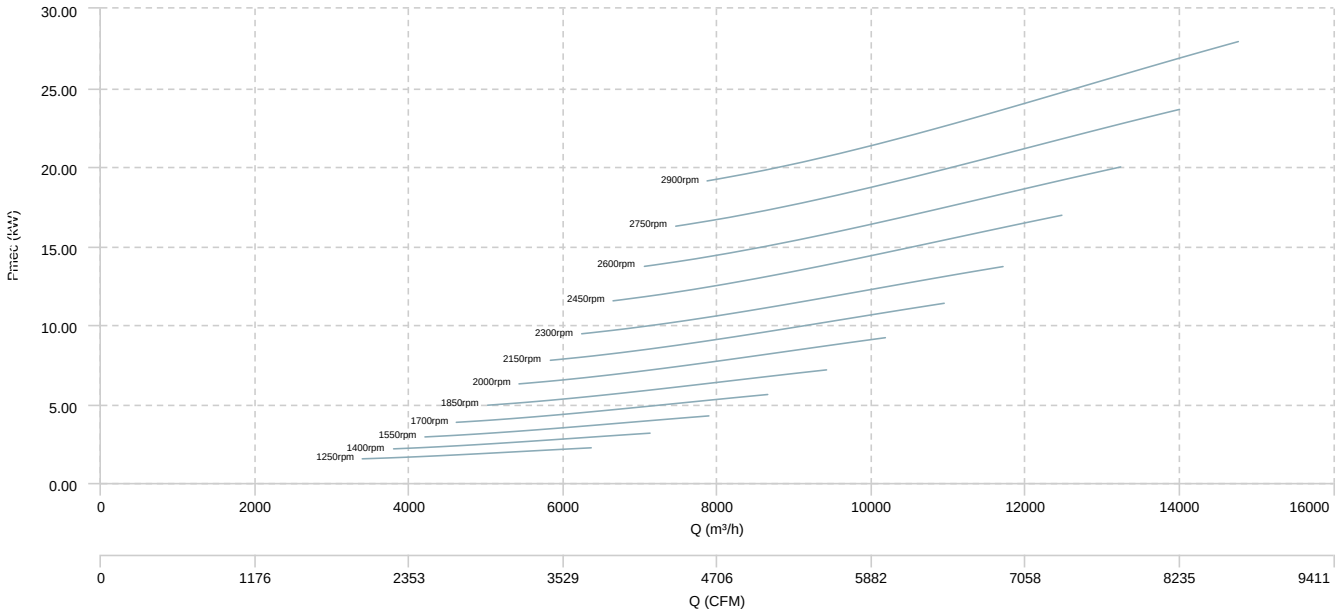


MTZM 560 P/R

AIR FLOW - PRESSURE

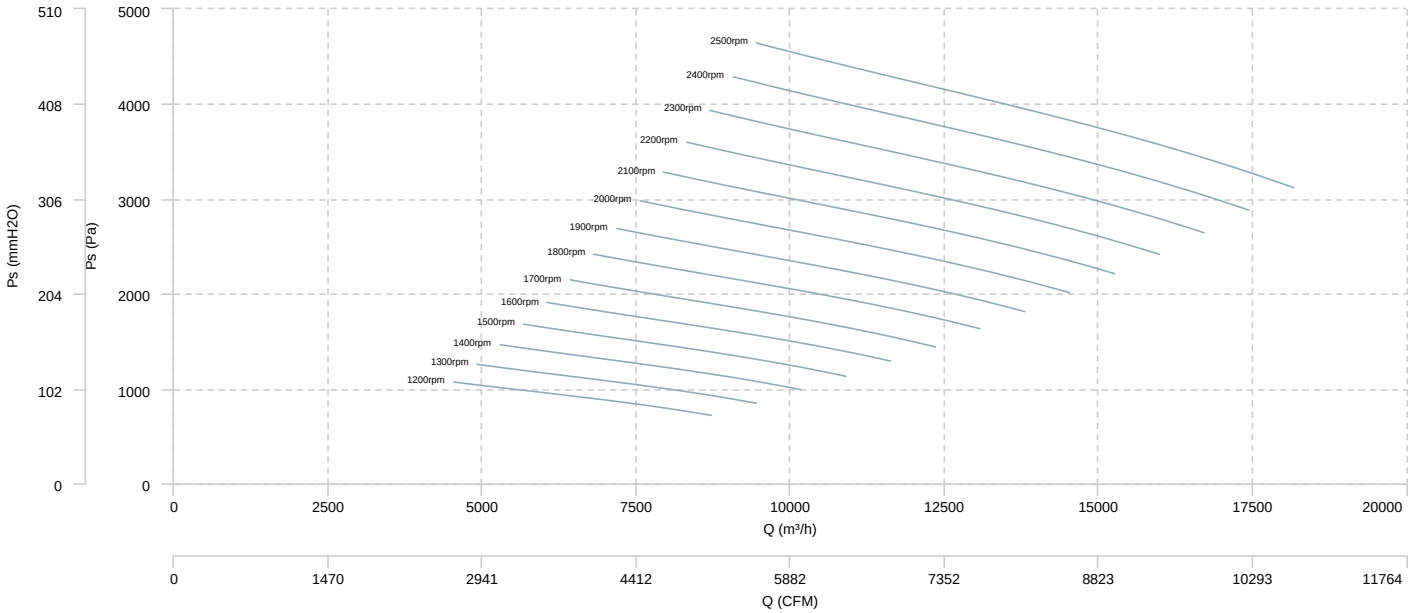


AIR FLOW - MECHANICAL POWER

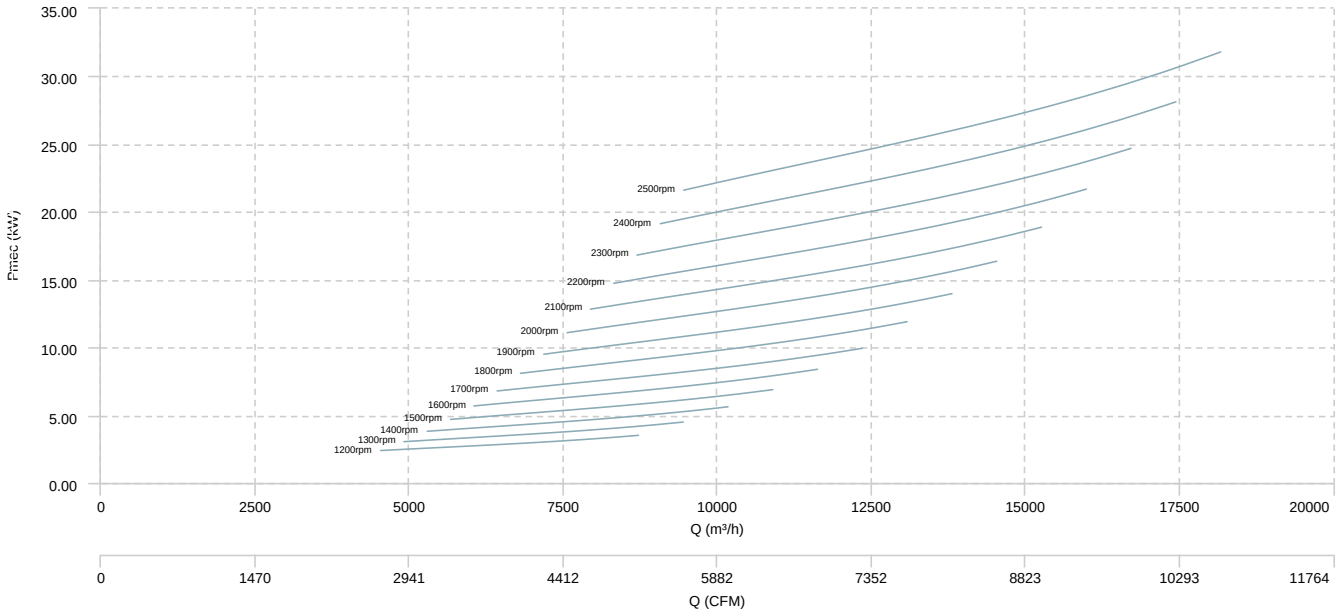


MTZM 630 P/R

AIR FLOW - PRESSURE

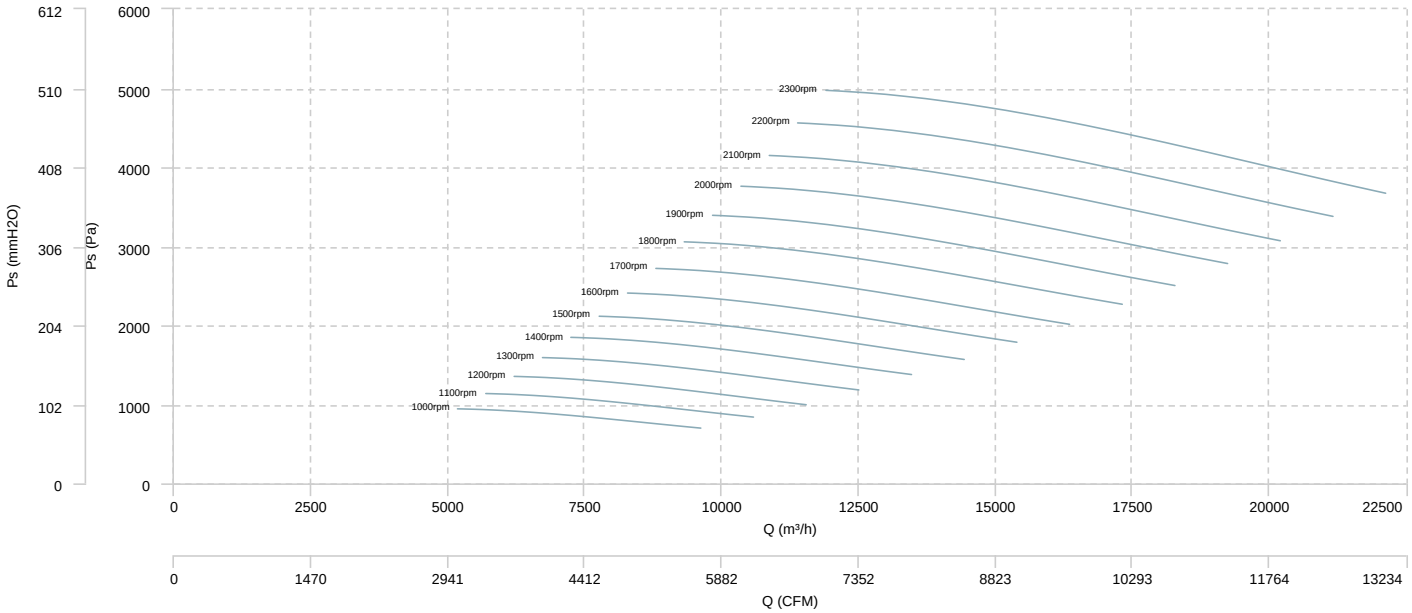


AIR FLOW - MECHANICAL POWER

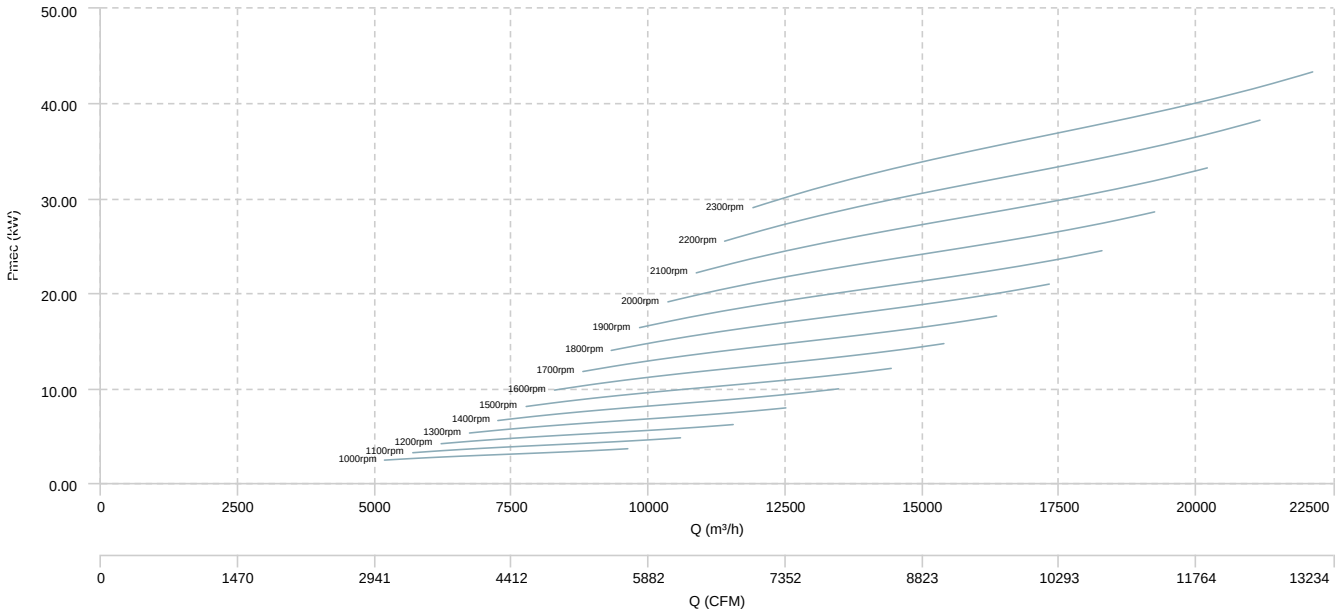


MTZM 710 P/R

AIR FLOW - PRESSURE

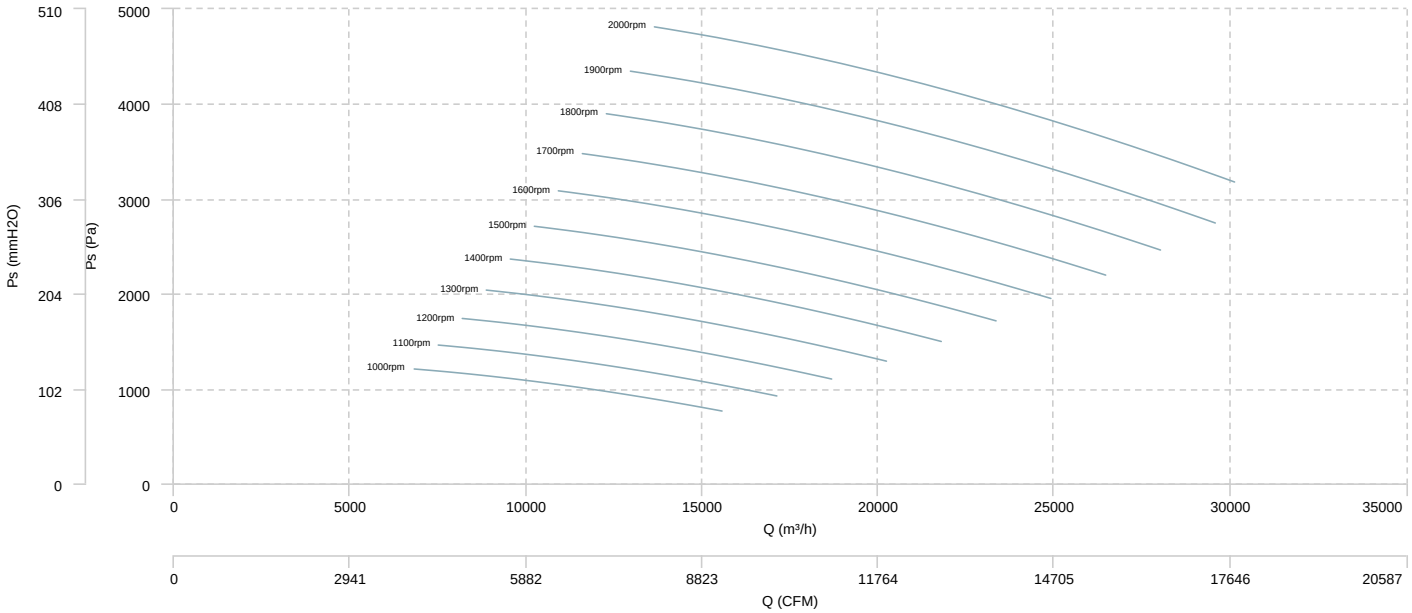


AIR FLOW - MECHANICAL POWER

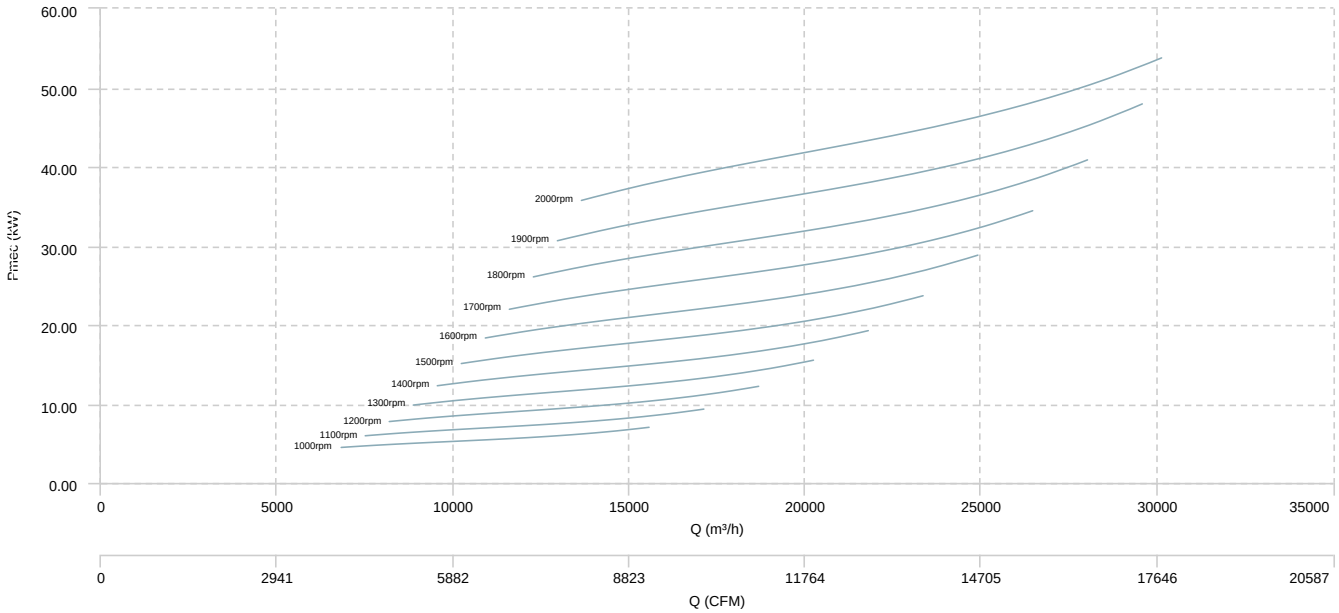


MTZM 800 P/R

AIR FLOW - PRESSURE

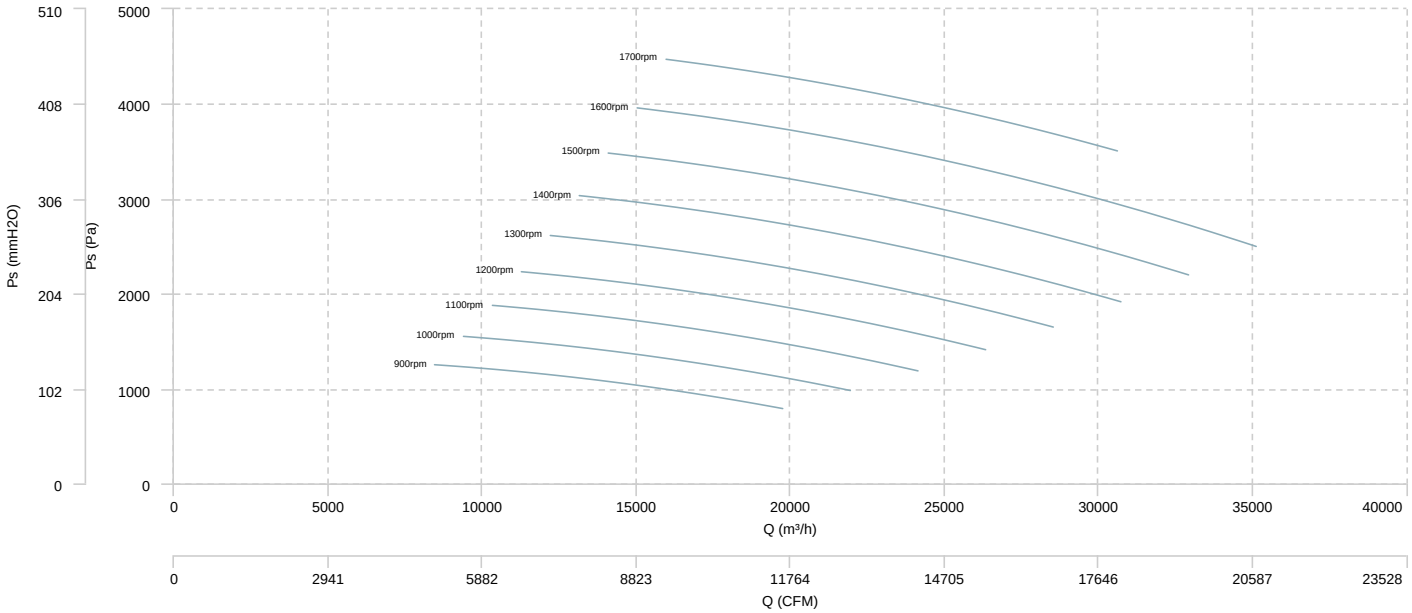


AIR FLOW - MECHANICAL POWER

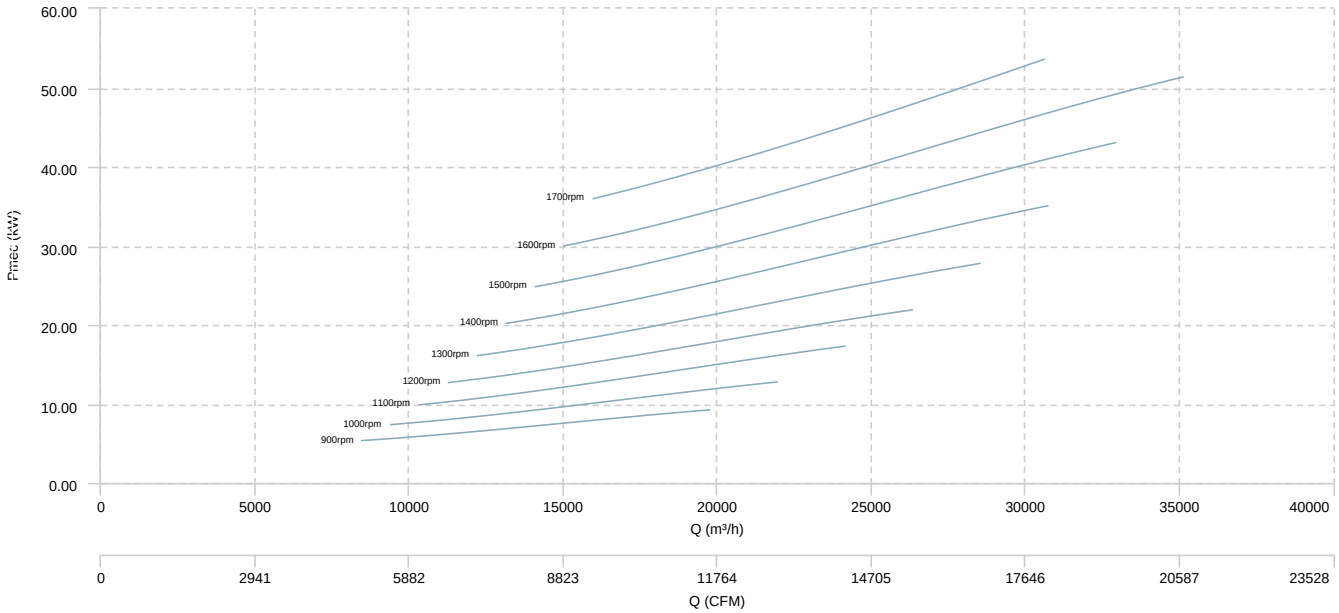


MTZM 900 P/R

AIR FLOW - PRESSURE

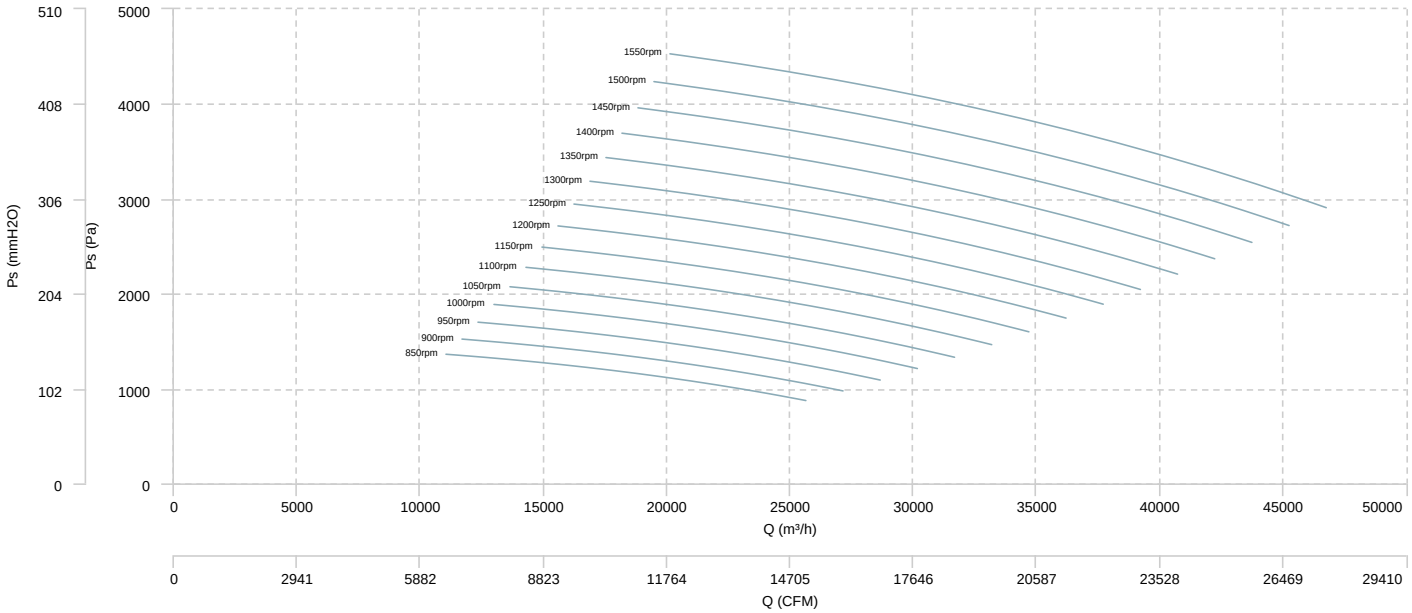


AIR FLOW - MECHANICAL POWER

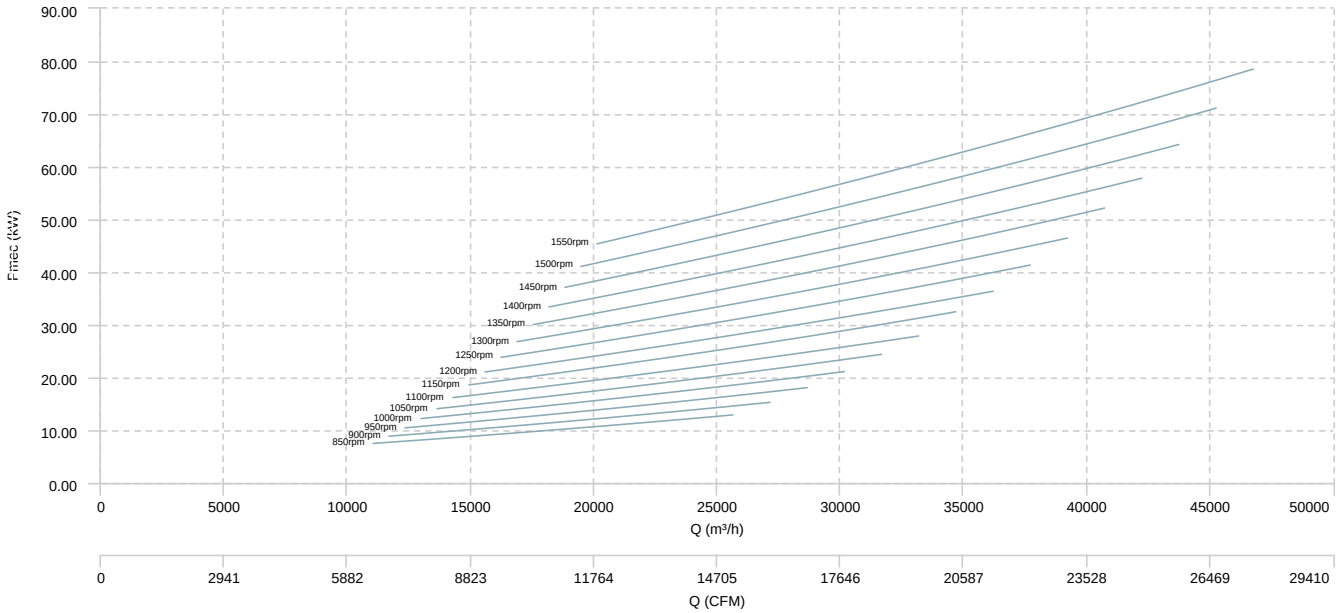


MTZM 1000 P/R

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**
MTZM 250 P/R (2150rpm)	Inlet	52	60	65	71	72	67	60	57	76
MTZM 280 P/R (2150rpm)	Inlet	55	63	68	73	74	70	63	60	79
MTZM 310 P/R (2150rpm)	Inlet	58	65	70	75	76	72	65	62	80
MTZM 350 P/R (2000rpm)	Inlet	58	67	72	77	78	73	67	64	82
MTZM 400 P/R (2000rpm)	Inlet	58	70	77	81	82	77	71	68	86
MTZM 450 P/R (1450rpm)	Inlet	54	66	72	76	77	73	66	63	82
MTZM 500 P/R (1450rpm)	Inlet	57	69	76	80	81	76	70	67	85
MTZM 560 P/R (1250rpm)	Inlet	58	70	77	81	82	77	70	67	86
MTZM 630 P/R (1200rpm)	Inlet	60	72	78	83	83	79	72	69	88
MTZM 710 P/R (1000rpm)	Inlet	58	70	77	81	82	77	71	68	86
MTZM 800 P/R (1000rpm)	Inlet	62	74	80	84	85	81	74	71	90
MTZM 900 P/R (900rpm)	Inlet	63	75	81	85	86	82	75	72	90
MTZM 1000 P/R (850rpm)	Inlet	64	76	82	87	87	83	76	73	92

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

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