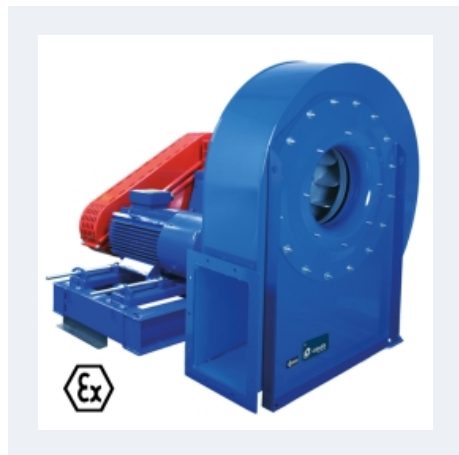


MTGR ATEX



ATEX MEDIUM PRESSURE FAN 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.
- Single 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.

- 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 and slightly dusty air transport.
- Exhaust after filters, separators and cyclones.
- Pneumatic 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

Accessories



AB



AC



AVR



AVS



BA-400



**BADS
ATEX**



**BIDS
ATEX**



EI



FS



**INT
ATEX**



JE 45



RI



SFC

Technical data

Three-phase motor

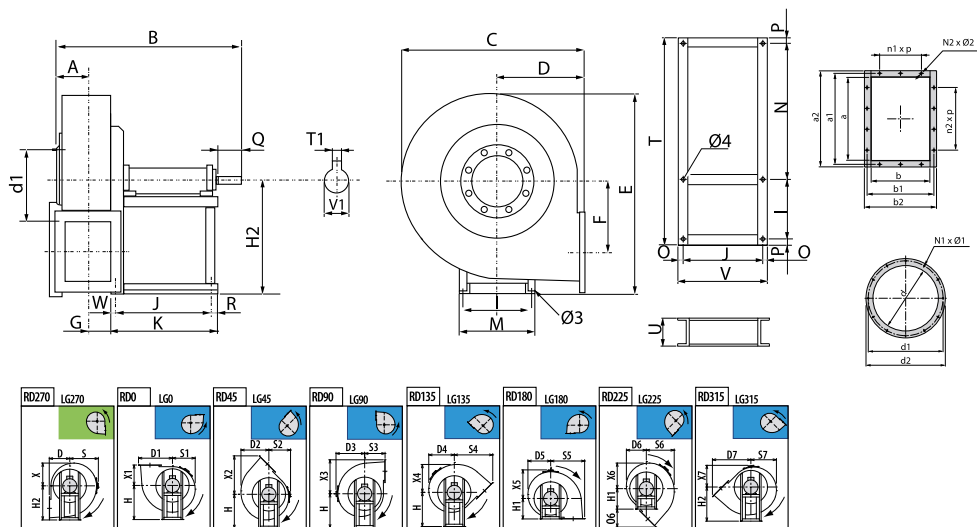
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	MTGR 400 ATEX	2550rpm - 3500rpm	1,10	9,00	4.690	64	80	1
	MTGR 450 ATEX	2250rpm - 3500rpm	1,50	11,00	6.230	71	95	1
	MTGR 500 ATEX	2000rpm - 3500rpm	2,20	15,00	9.330	74	135	1
	MTGR 560 ATEX	1800rpm - 3500rpm	3,00	22,00	13.260	78	187	1
	MTGR 630 ATEX	1600rpm - 3500rpm	5,50	37,00	18.640	80	218	1
	MTGR 710 ATEX	1450rpm - 3200rpm	7,50	55,00	24.900	84	336	1
	MTGR 800 ATEX	1250rpm - 3150rpm	11,00	90,00	34.650	-	400	1
	MTGR 900 ATEX	1150rpm - 2400rpm	11,00	75,00	38.360	87	489	1
	MTGR 1000 ATEX	1000rpm - 2200rpm	15,00	90,00	46.480	86	694	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
MTGR 400 ATEX	105	776	685	285	483	387	400	353	315
MTGR 450 ATEX	115	795	765	320	541	435	445	398	354
MTGR 500 ATEX	131	956	862	360	597	490	502	450	400

Model	D6	D7	E	F	G	H	H1	H2	I
MTGR 400 ATEX	306	543	815	319	97	500	285	500	355
MTGR 450 ATEX	342	609	914	357	107	560	320	560	355
MTGR 500 ATEX	380	676	1000	396	119	600	360	600	364

Model	J	K	M	N1xØ1	N2xØ2	O	O6	P	Q
MTGR 400 ATEX	407	485	400	Nº8 M8x20	10x12	28	258	23	80
MTGR 450 ATEX	407	485	400	Nº8 M8x20	10x12	28	289	23	80
MTGR 500 ATEX	477	560	418	Nº8 M8x20	10x12	33	316	27	110

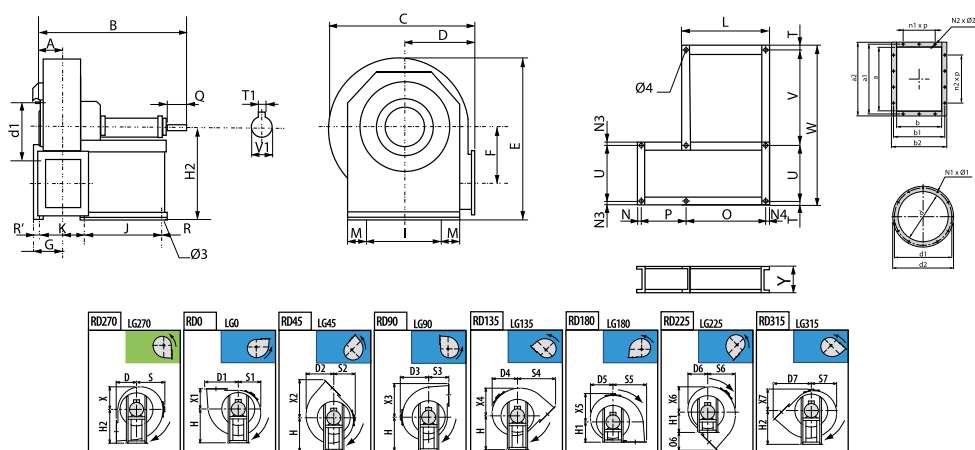
Model	R	S	S1	S2	S3	S4	S5	S6	S7
MTGR 400 ATEX	28	400	315	306	285	543	483	387	353
MTGR 450 ATEX	28	445	354	342	320	609	541	435	398
MTGR 500 ATEX	33	502	400	380	360	676	597	490	450

Model	T	T1	U	V	V1	W	X	X1	X2
MTGR 400 ATEX	10	10	120	38	38	50	315	285	543
MTGR 450 ATEX	10	10	120	38	38	50	354	320	609

Model	T	T1	U	V	V1	W	X	X1	X2
MTGR 500 ATEX	12	12	140	42	42	50	400	360	676

Model	X3	X4	X5	X6	X7	a	a1	a2	b
MTGR 400 ATEX	483	387	400	353	306	258	292	328	185
MTGR 450 ATEX	541	435	445	398	342	288	332	368	205
MTGR 500 ATEX	597	490	502	450	380	322	366	402	229

Model	b1	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4
MTGR 400 ATEX	219	255	255	292	325	1x112	2x112	14	15
MTGR 450 ATEX	249	285	285	332	365	1x125	2x125	14	15
MTGR 500 ATEX	273	309	320	366	400	1x125	2x125	17	18



Model	A	B	C	D	D1	D2	D3	D4	D5
MTGR 560 ATEX	142	1031	970	400	657	555	570	542	485
MTGR 630 ATEX	158	1069	1080	450	732	619	630	603	540

Model	D6	D7	E	F	G	H	H1	H2	I
MTGR 560 ATEX	425	747	1155	436	181	670	400	670	632
MTGR 630 ATEX	476	836	1290	490	197	750	450	750	702

Model	J	K	L	M	N1	N1xØ1	N2xØ2	N3	N4
MTGR 560 ATEX	477	341	543	30	33	Nº8 M8x20	10x12	30	33
MTGR 630 ATEX	477	372	543	30	33	Nº12 M8x20	14x12	30	33

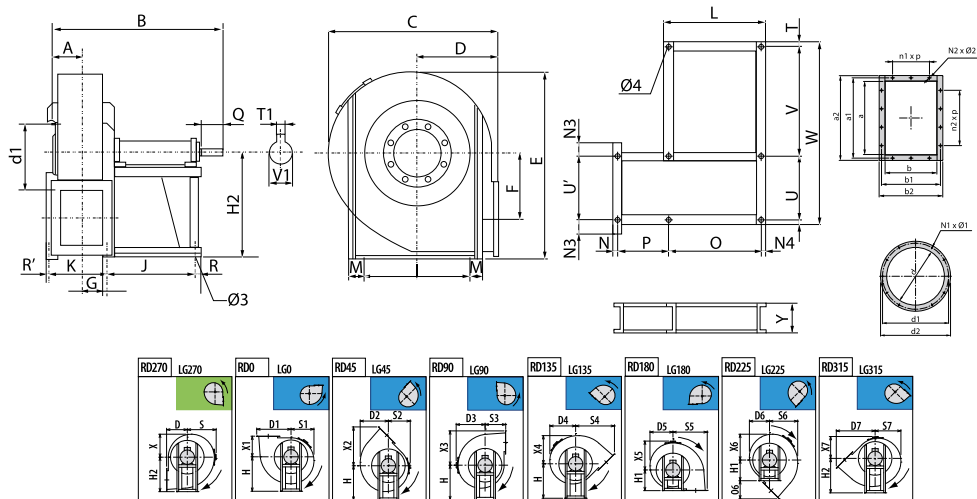
Model	O	O6	P	Q	R	S	S1	S2	S3
MTGR 560 ATEX	477	347	341	110	33	570	485	425	400
MTGR 630 ATEX	477	386	372	110	33	630	540	476	450

Model	S4	S5	S6	S7	T	T1	U	V	V1
MTGR 560 ATEX	747	657	555	542	30	14	632	678	48
MTGR 630 ATEX	836	732	619	603	30	14	702	708	48

Model	W	X	X1	X2	X3	X4	X5	X6	X7
MTGR 560 ATEX	1370	485	400	747	657	555	570	542	425
MTGR 630 ATEX	1470	540	450	836	732	619	630	603	476

Model	Y	a	a1	a2	b	b1	b2	d	d1
MTGR 560 ATEX	160	361	405	441	256	300	336	360	405
MTGR 630 ATEX	160	404	448	484	288	332	368	405	448

Model	d2	n1xp	n2xp	Ø3	Ø4
MTGR 560 ATEX	440	1x125	2x125	17	18
MTGR 630 ATEX	485	2x125	3x125	17	18



Model	A	B	C	D	D1	D2	D3	D4	D5
MTGR 710 ATEX	185	1158	1190	500	825	719	690	662	596
MTGR 800 ATEX	199	1214	1342	560	919	811	782	749	672
MTGR 900 ATEX	221	1257	1500	630	1038	905	870	835	721
MTGR 1000 ATEX	246	1449	1686	710	1160	1015	976	936	813

Model	D6	D7	E	F	G	H	H1	H2	I
MTGR 710 ATEX	497	937	1446	558	221	670	500	670	772
MTGR 800 ATEX	562	1045	1622	625	260	755	560	755	862
MTGR 900 ATEX	633	1179	1781	703	282	850	630	850	962
MTGR 1000 ATEX	718	1322	1993	791	326	950	710	950	1056

Model	J	K	L	M	N	N1	N1xØ1	N2xØ2	N3
MTGR 710 ATEX	551	415	629	27	27	39	Nº12 M8x25	14x12	71
MTGR 800 ATEX	551	454	629	32	47	39	Nº12 M8x25	14x12	91
MTGR 900 ATEX	551	497	629	32	47	39	Nº12 M8x25	14x14	91
MTGR 1000 ATEX	607	541	697	36	67	45	Nº12 M10x30	14x14	99

Model	N4	O	O6	P	Q	R	R'	S	S1
MTGR 710 ATEX	39	551	437	415	110	39	27	690	596
MTGR 800 ATEX	39	551	485	454	110	39	47	782	672
MTGR 900 ATEX	39	551	549	497	110	39	47	870	721
MTGR 1000 ATEX	45	607	612	541	140	45	67	976	813

Model	S2	S3	S4	S5	S6	S7	T	T1	U
MTGR 710 ATEX	497	500	937	825	719	662	27	14	772
MTGR 800 ATEX	562	560	1045	919	811	749	32	16	862
MTGR 900 ATEX	633	630	1179	1038	905	835	32	16	962
MTGR 1000 ATEX	718	710	1322	1160	1015	936	36	18	1056

Model	U'	V	V1	W	X	X1	X2	X3	X4
MTGR 710 ATEX	772	807	48	1633	596	500	937	825	719
MTGR 800 ATEX	862	842	55	1768	672	560	1045	919	811
MTGR 900 ATEX	962	987	55	2013	721	630	1179	1038	905
MTGR 1000 ATEX	1056	1036	65	2164	813	710	1322	1160	1015

Model	X5	X6	X7	Y	a	a1	a2	b	b1
MTGR 710 ATEX	690	662	497	180	453	497	533	322	366
MTGR 800 ATEX	782	749	562	180	507	551	587	361	405
MTGR 900 ATEX	870	835	633	180	569	629	669	404	464
MTGR 1000 ATEX	976	936	718	200	638	698	738	453	513

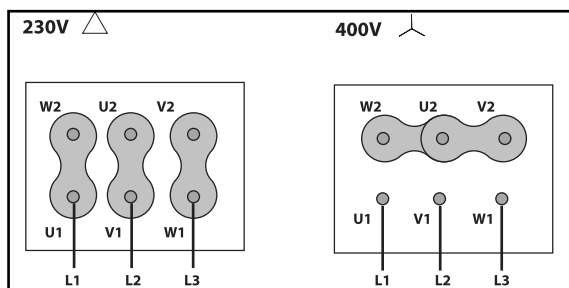
Model	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4
MTGR 710 ATEX	402	455	497	535	2x125	3x125	19	20
MTGR 800 ATEX	441	505	551	585	2x125	3x125	19	20

Model	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4
MTGR 900 ATEX	504	565	629	665	2x160	3x160	19	20
MTGR 1000 ATEX	553	635	698	735	2x160	3x160	19	20

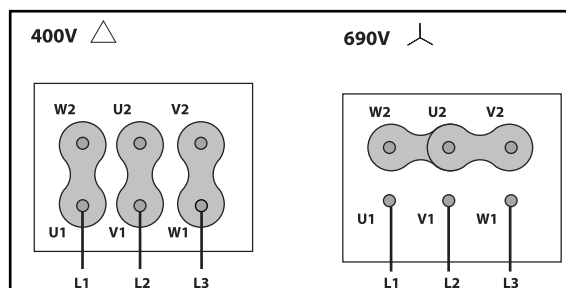
Wiring diagram

Wiring diagram N° 1

230/400V



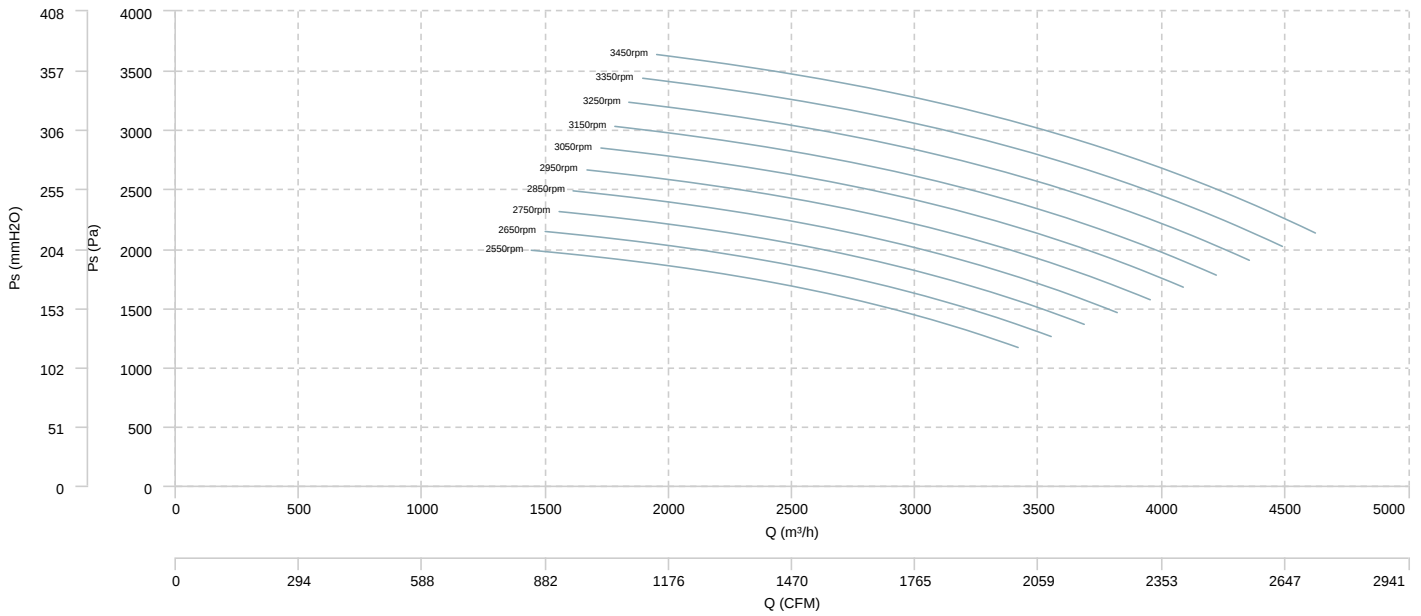
400/690V



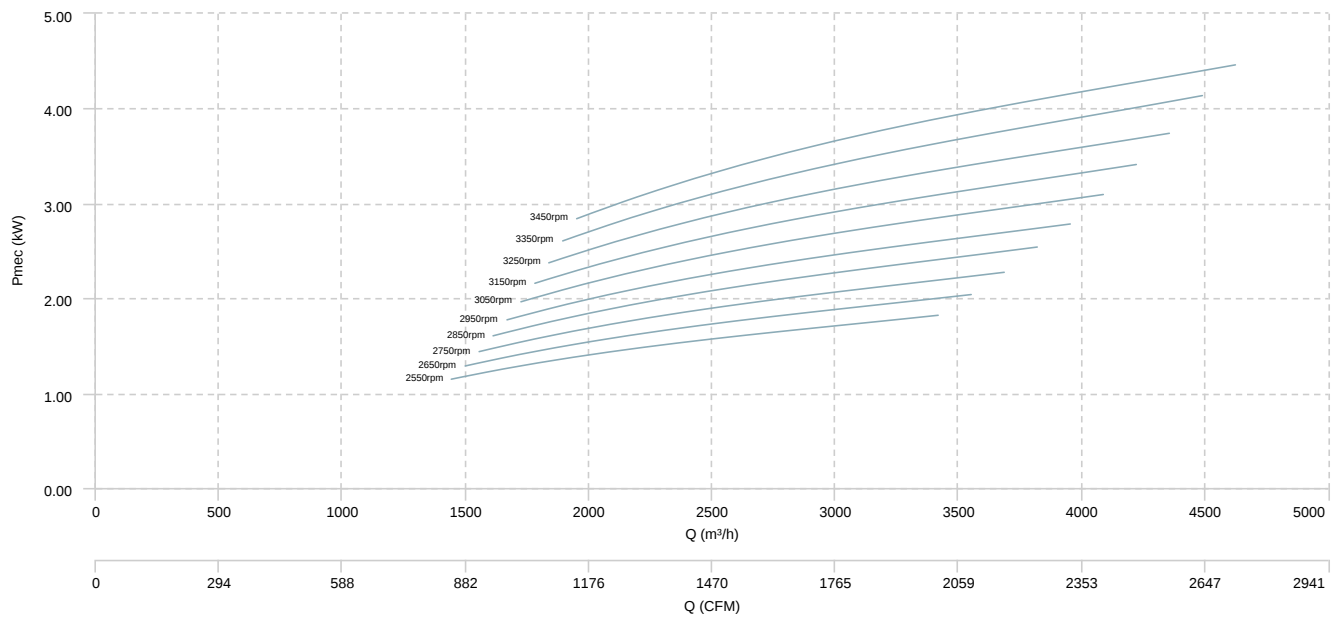
CHARACTERISCTIC CURVE

MTGR 400 ATEX

AIR FLOW - PRESSURE

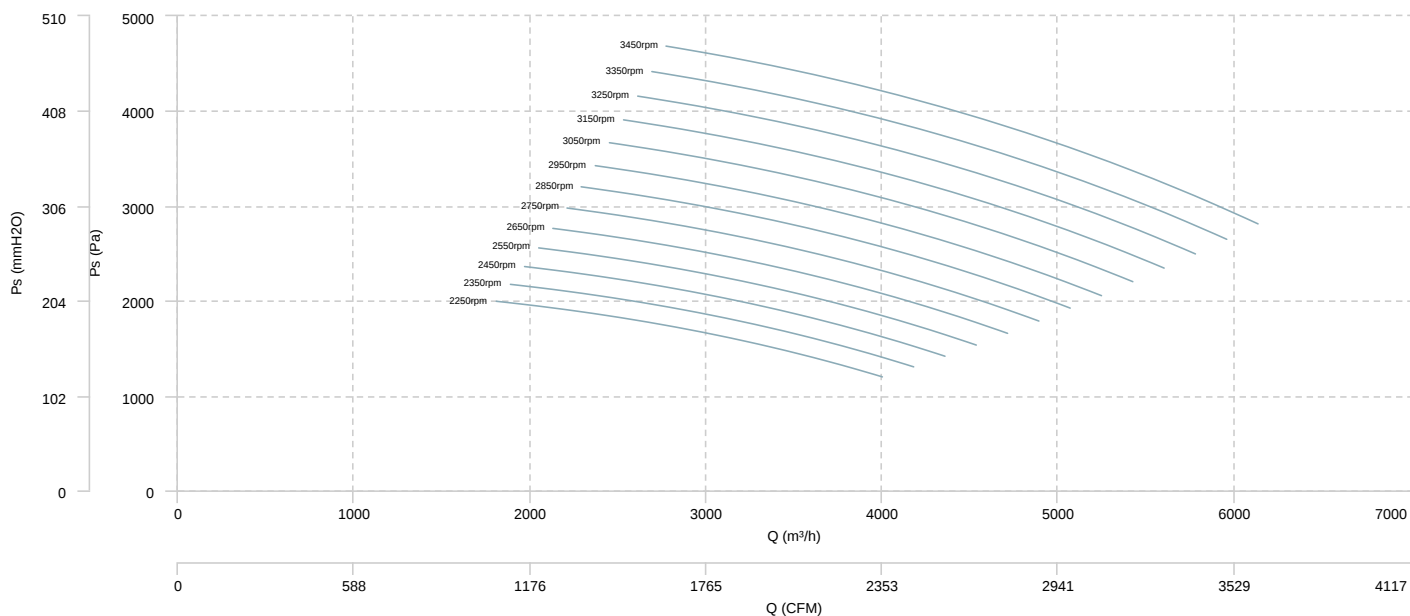


AIR FLOW - MECHANICAL POWER

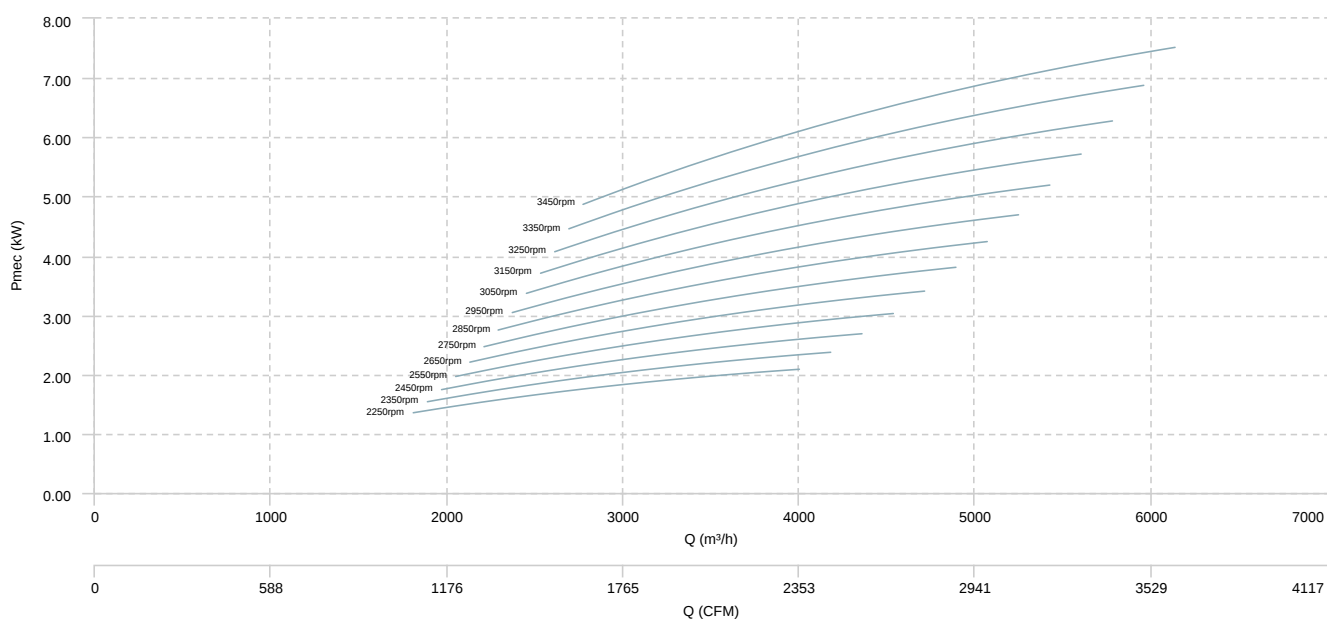


MTGR 450 ATEX

AIR FLOW - PRESSURE

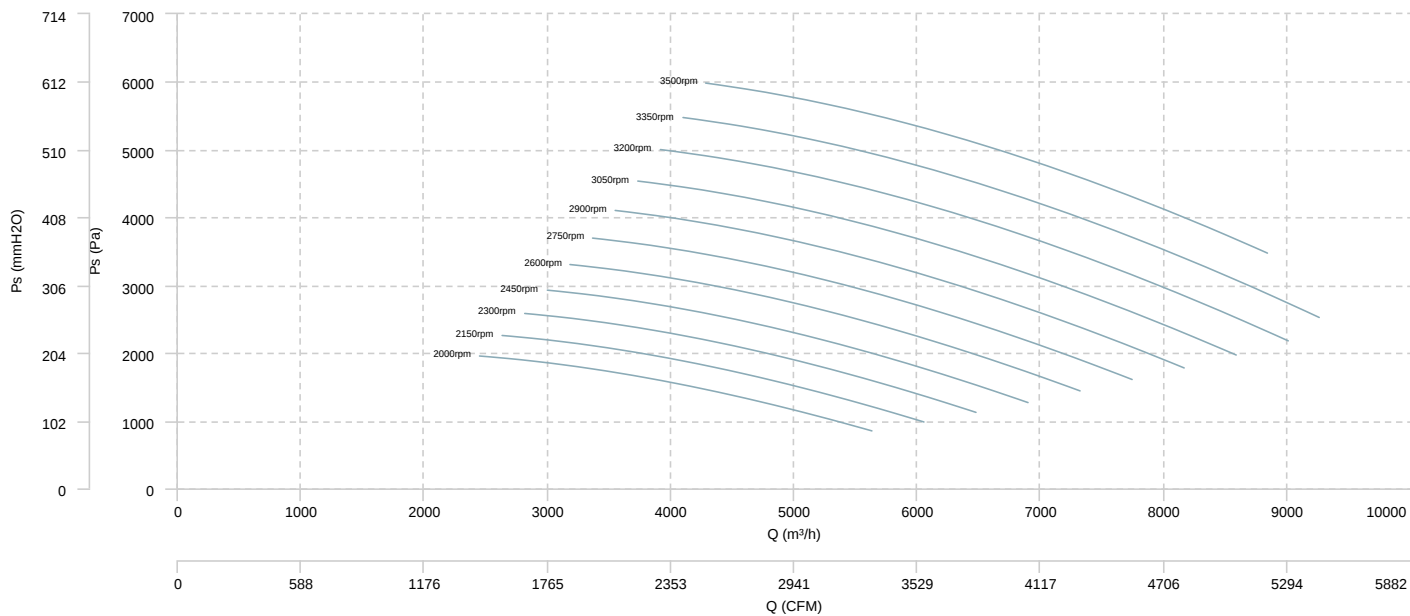


AIR FLOW - MECHANICAL POWER

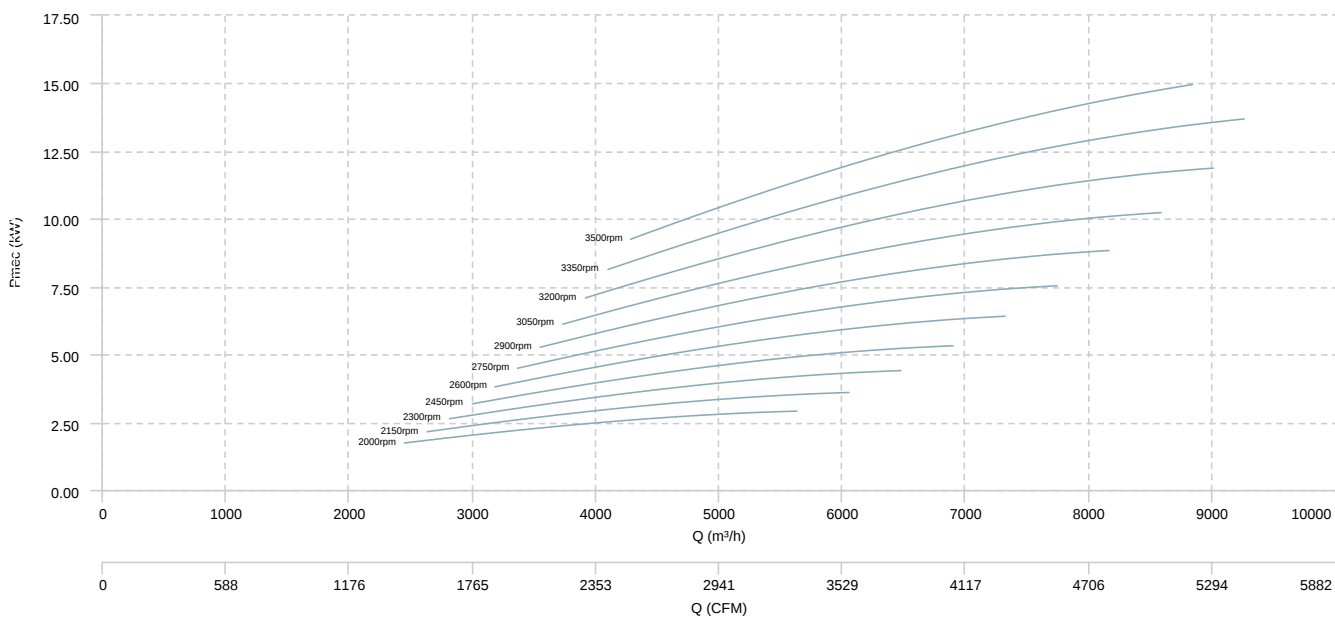


MTGR 500 ATEX

AIR FLOW - PRESSURE

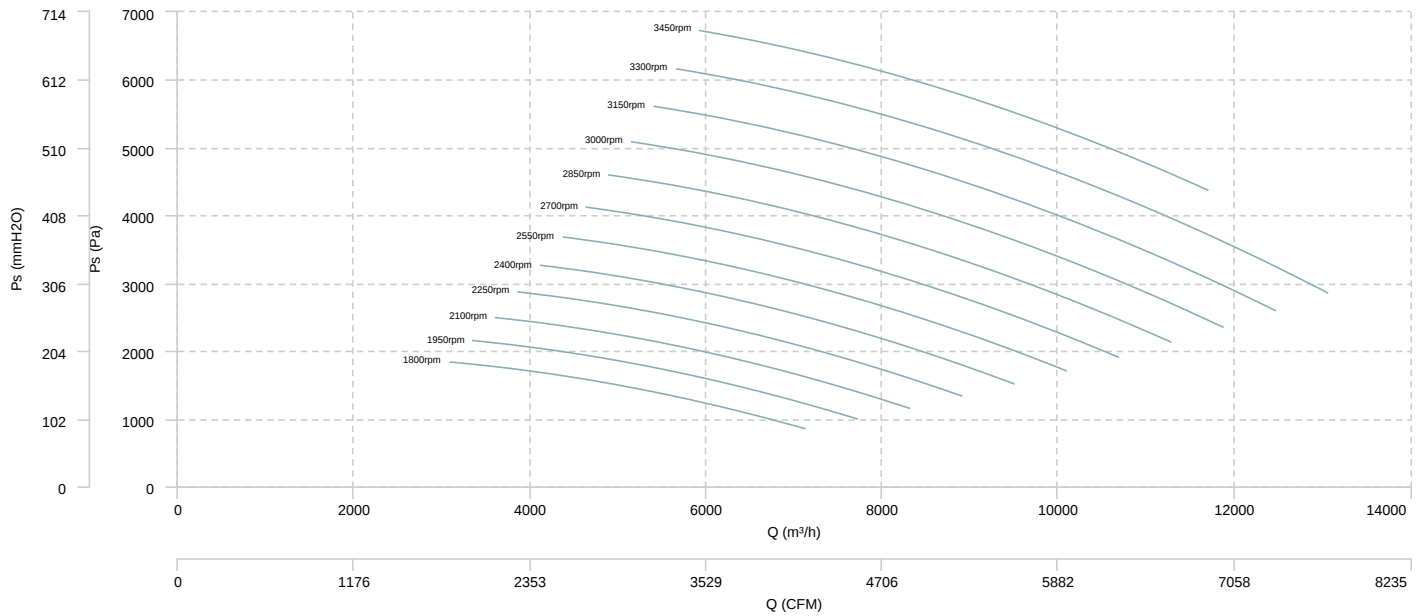


AIR FLOW - MECHANICAL POWER

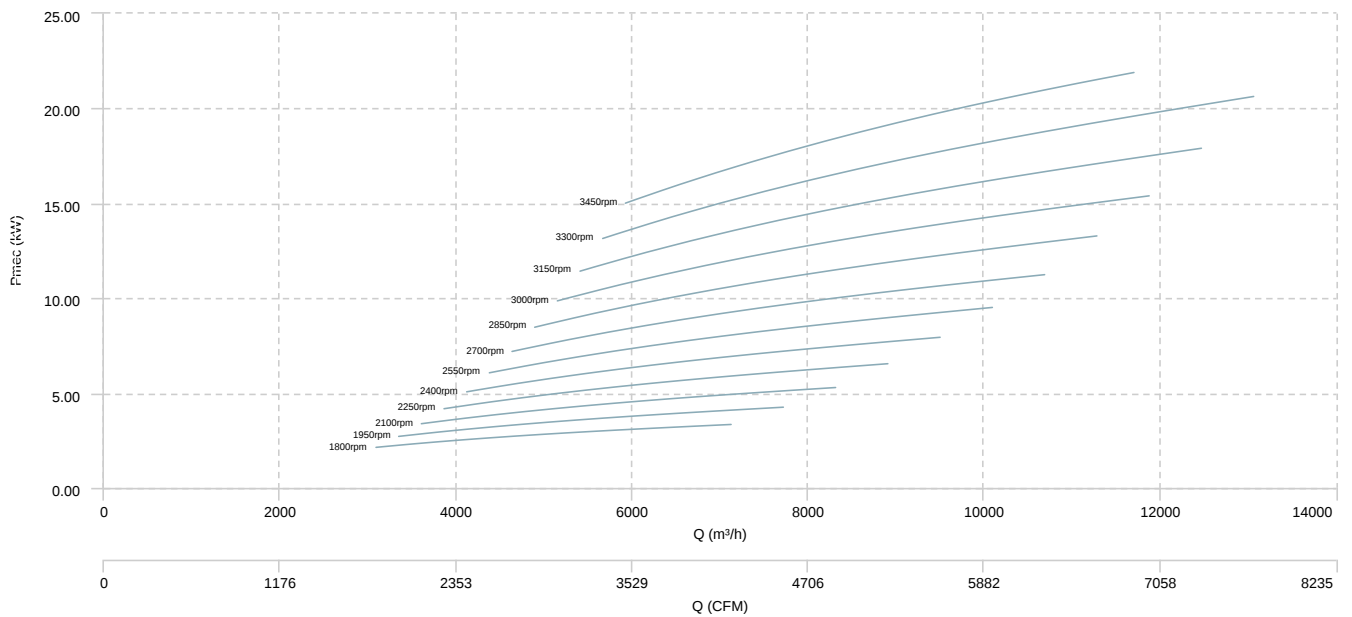


MTGR 560 ATEX

AIR FLOW - PRESSURE

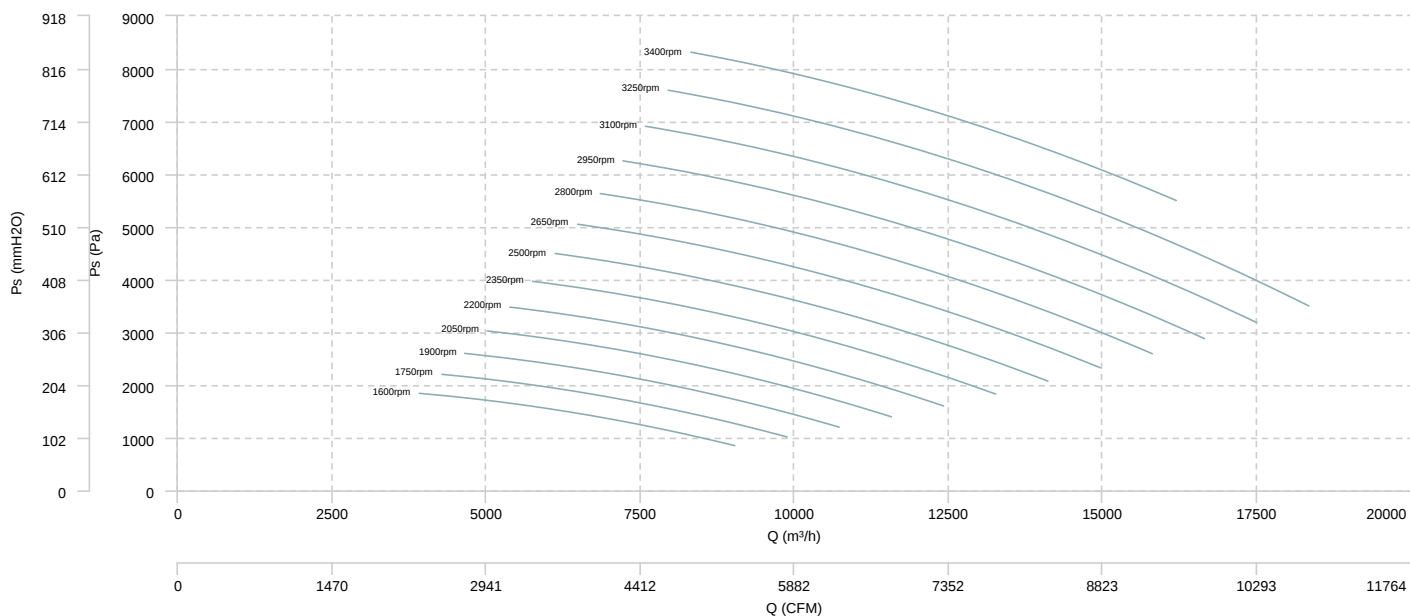


AIR FLOW - MECHANICAL POWER

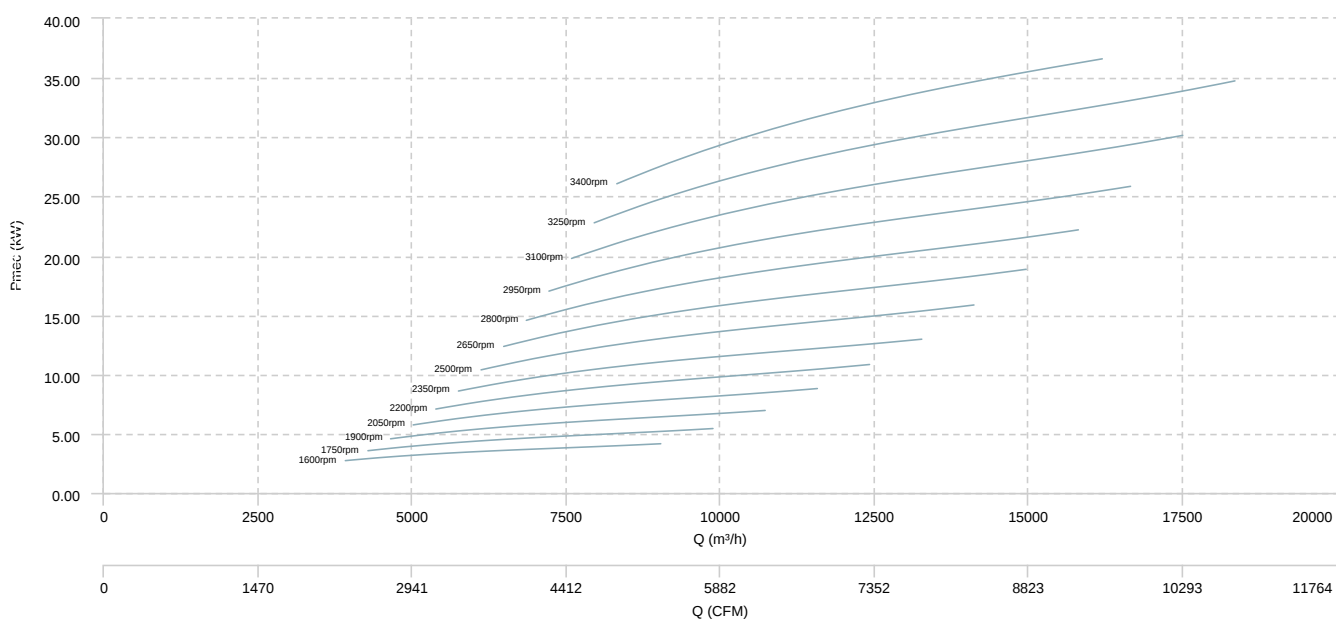


MTGR 630 ATEX

AIR FLOW - PRESSURE

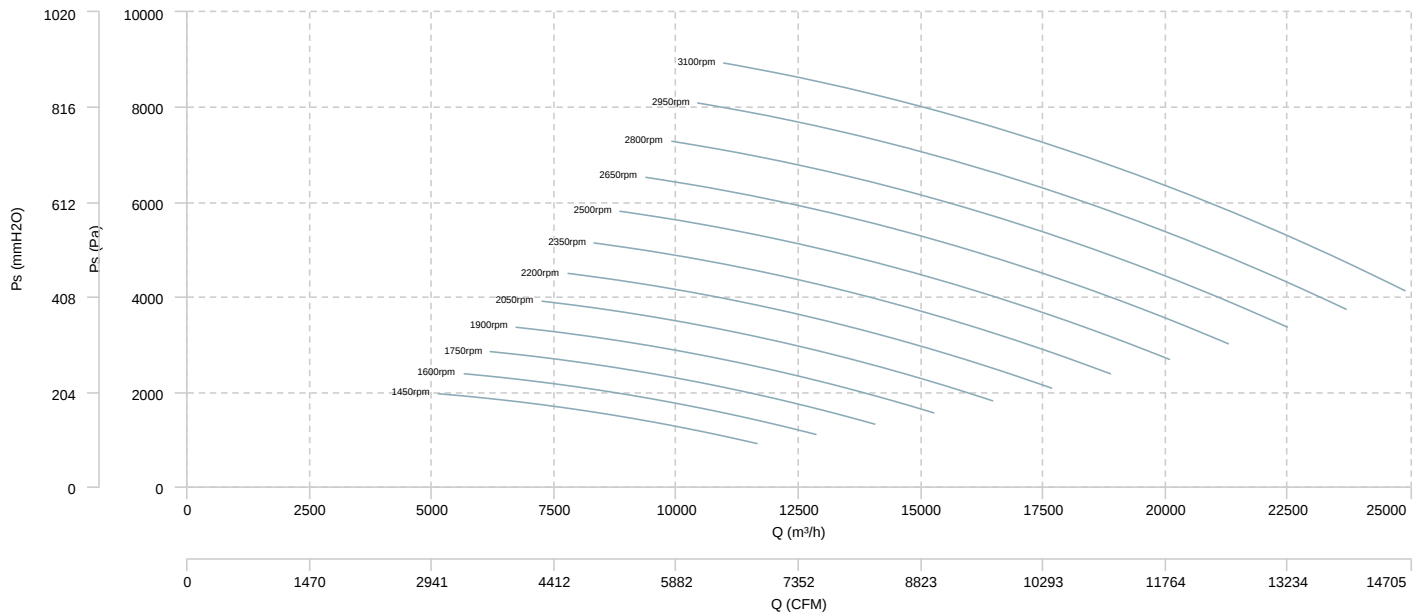


AIR FLOW - MECHANICAL POWER

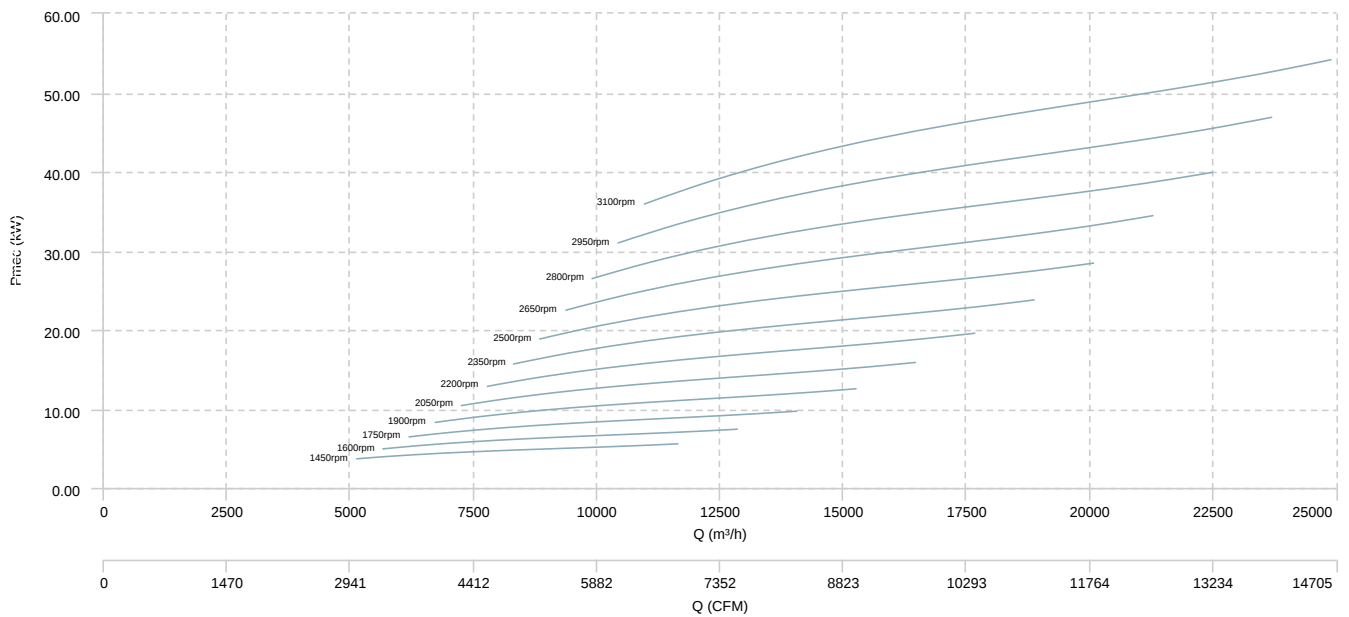


MTGR 710 ATEX

AIR FLOW - PRESSURE

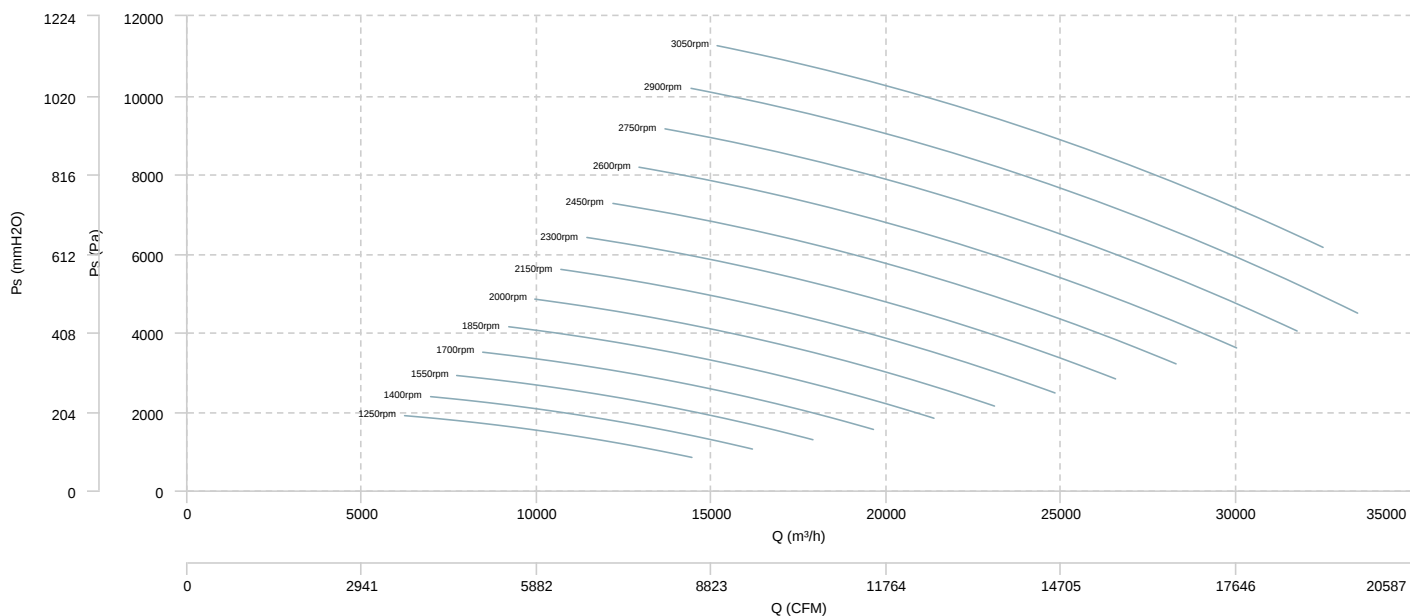


AIR FLOW - MECHANICAL POWER

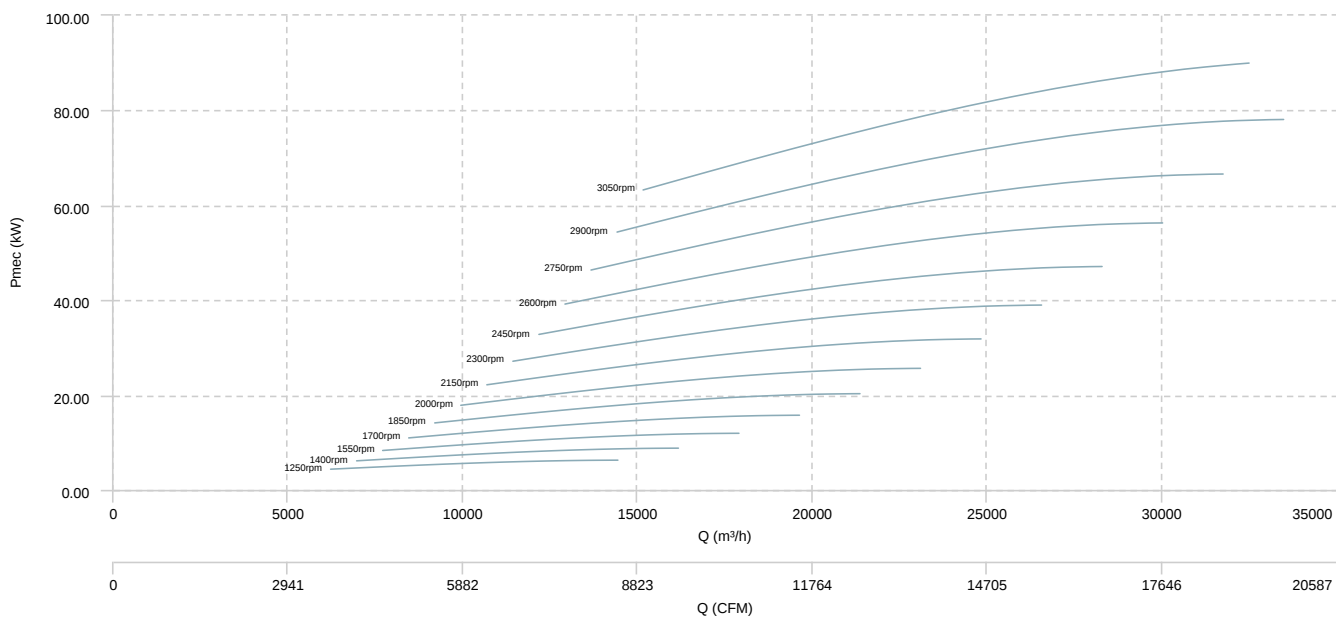


MTGR 800 ATEX

AIR FLOW - PRESSURE

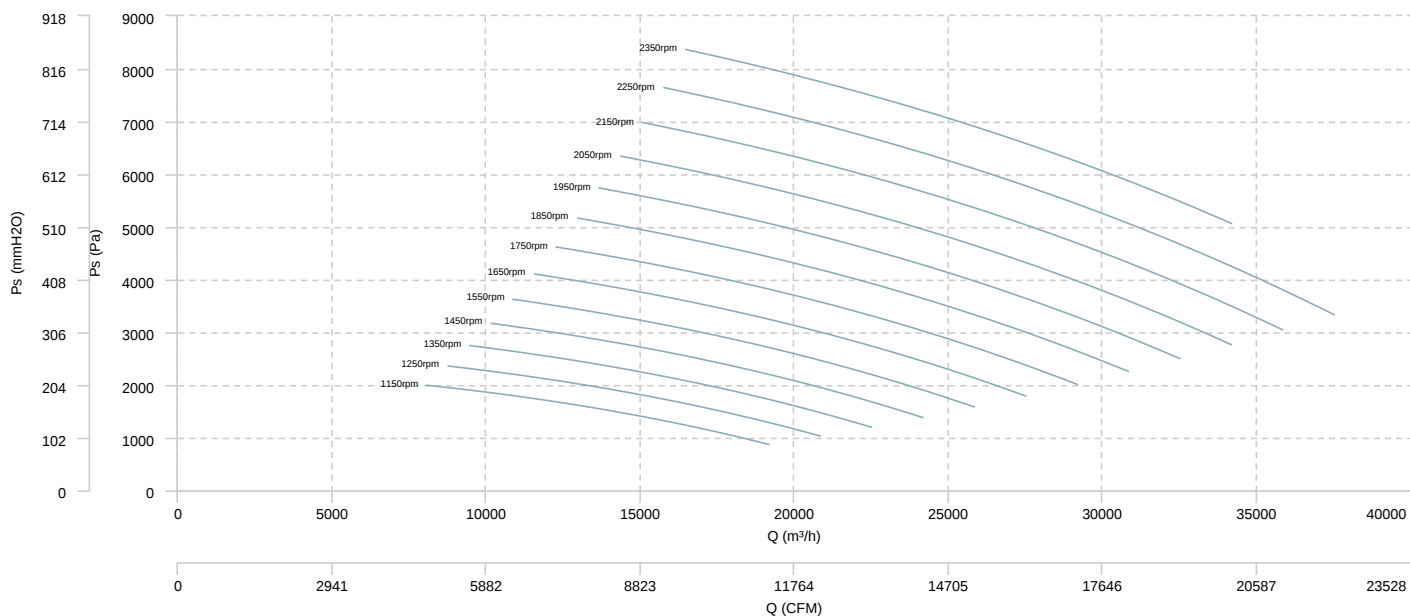


AIR FLOW - MECHANICAL POWER

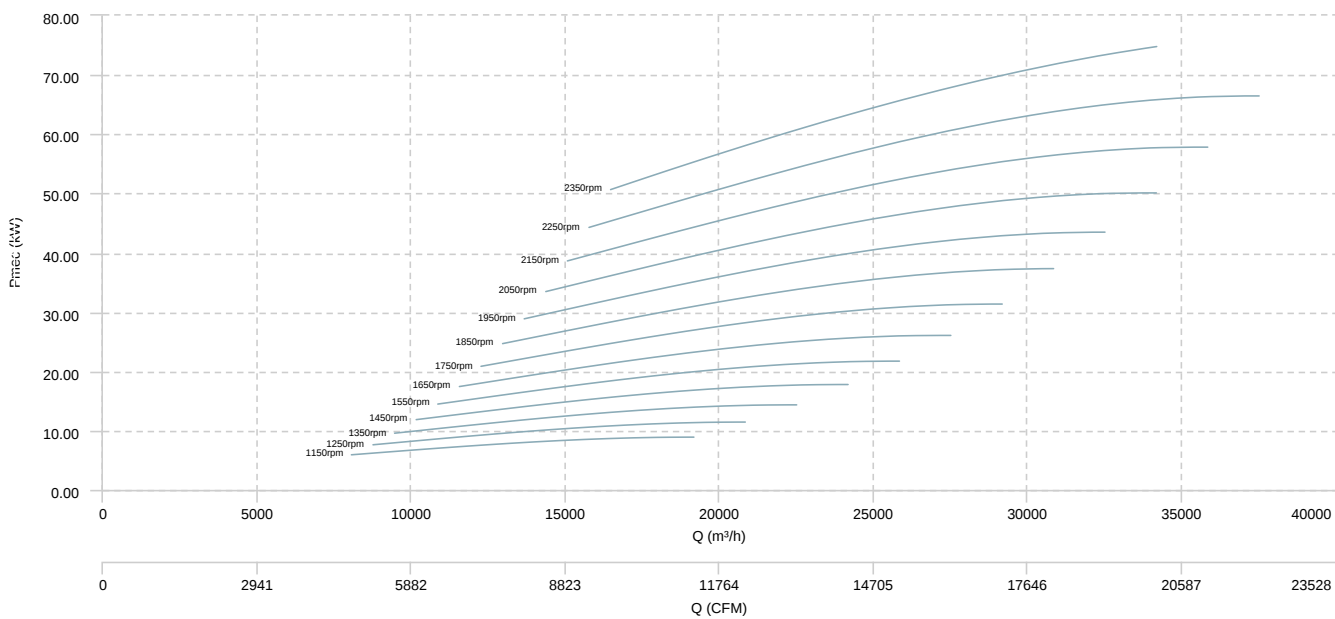


MTGR 900 ATEX

AIR FLOW - PRESSURE

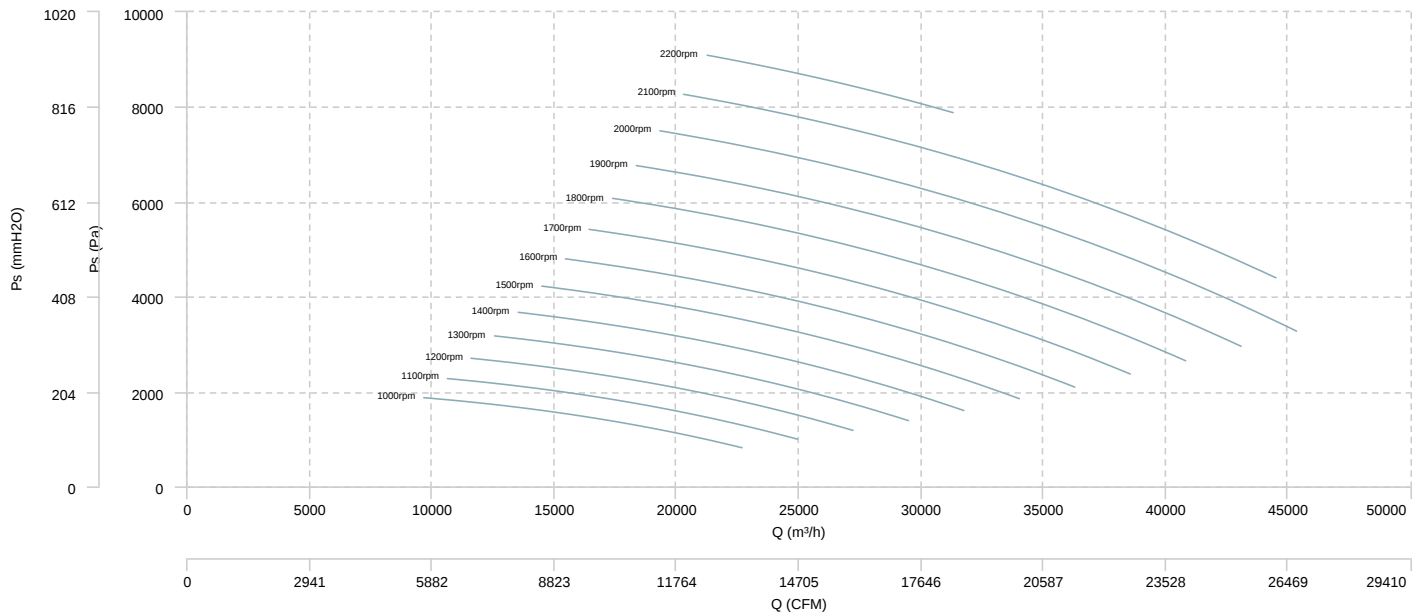


AIR FLOW - MECHANICAL POWER

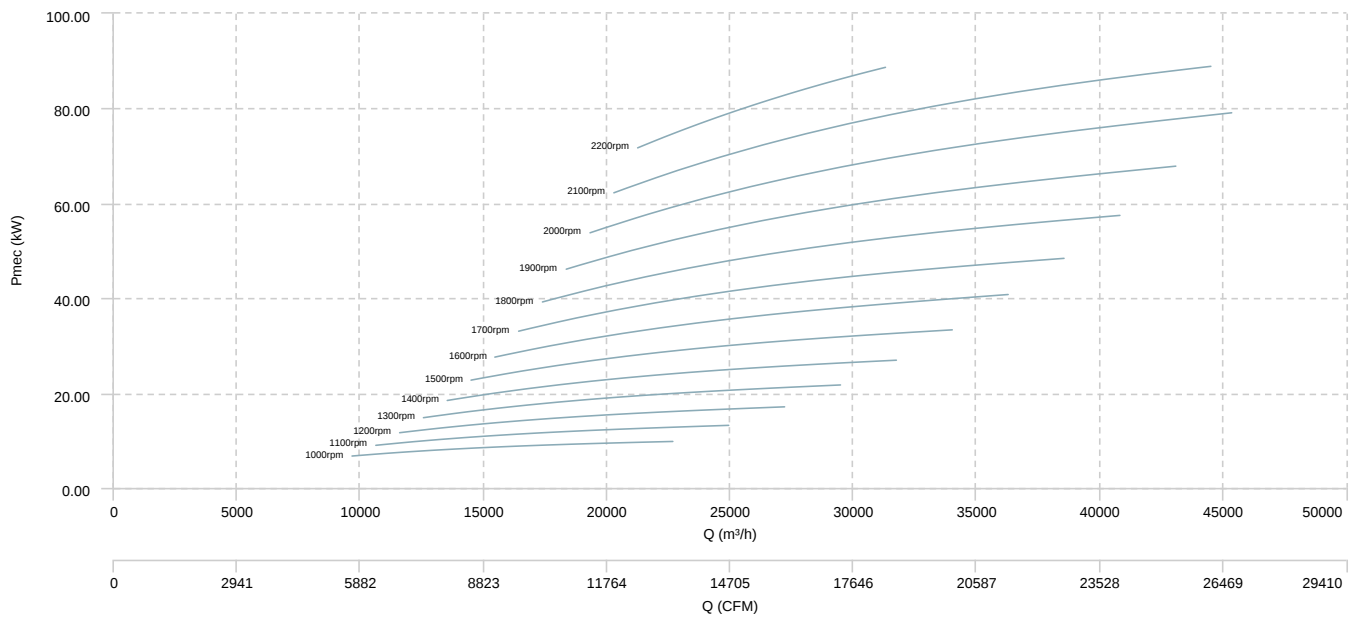


MTGR 1000 ATEX

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
MTGR 400 ATEX (2550rpm)	Inlet	56	68	74	78	79	75	68	65	83
MTGR 450 ATEX (2250rpm)	Inlet	60	72	78	82	83	78	72	69	87
MTGR 500 ATEX (2000rpm)	Inlet	63	75	81	85	86	81	75	72	90
MTGR 560 ATEX (1800rpm)	Inlet	63	75	81	85	86	82	75	72	91
MTGR 630 ATEX (1600rpm)	Inlet	64	76	82	86	87	83	76	73	91
MTGR 710 ATEX (1450rpm)	Inlet	66	78	85	89	90	85	79	76	94
MTGR 900 ATEX (1150rpm)	Inlet	70	82	88	92	93	88	82	79	97
MTGR 1000 ATEX (1000rpm)	Inlet	67	79	86	90	91	86	79	76	95

Notes:

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

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