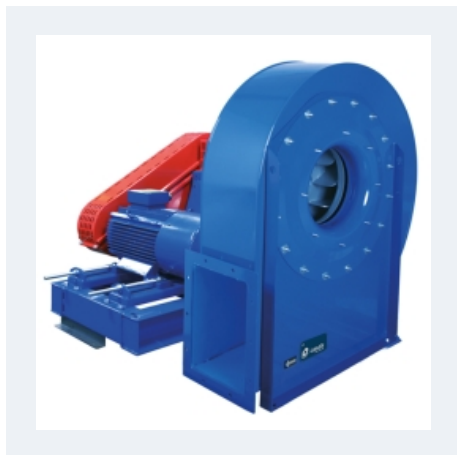


MTGR



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.
- Fully welded or joined housing.
- 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.
- 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 from models 400 to 630. Models sizes from 710 to 2000 size the 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 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

- 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
- Available in non-sparking air passage and standard motor.
- Other brands of motors.

Accessories



AB



AC



AVR



AVS



BA-400



BADS



BIDS



EI



FS



INT



JE 45



RA



RI



SFC

Technical data

Three-phase motor

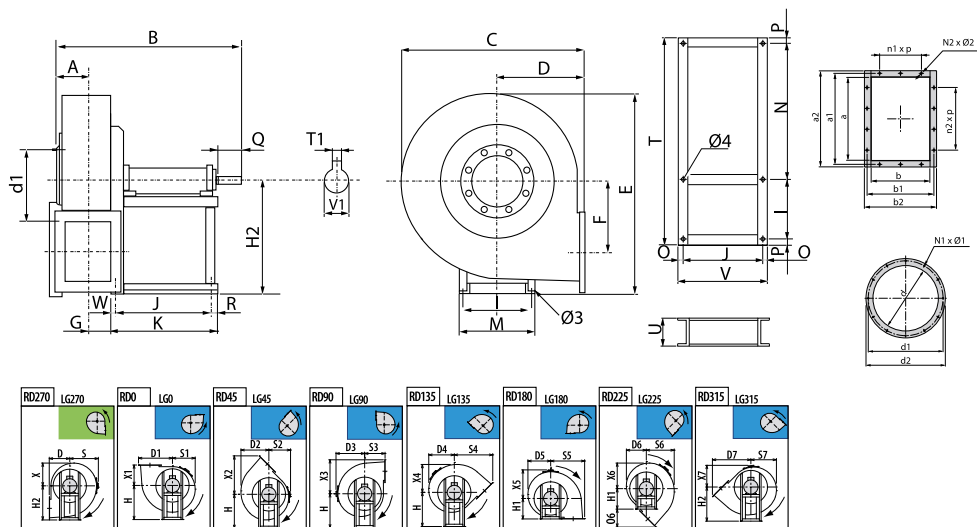
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
5047040__R__	MTGR 400	2550 - 3500	1,10	9,00	4.690	64	80	1
5047045__R__	MTGR 450	2250 - 3500	1,50	11,00	6.230	71	95	1
5047050__R__	MTGR 500	2000 - 3500 (turb Clase II)	2,20	15,00	9.330	74	135	1
5047056__R__	MTGR 560	1800 - 3500 (turb Clase II)	3,00	22,00	13.260	78	187	1
5047063__R__	MTGR 630	1600 - 3500 (turb Clase II)	5,50	37,00	18.640	80	218	1
5047071__R__	MTGR 710	1450 - 3200 (turb Clase II)	7,50	55,00	24.900	84	336	1
5047080__R__	MTGR 800	1250rpm - 3150rpm (turb Clase III)	11,00	90,00	34.650	-	400	1
5047090__R__	MTGR 900	1150 - 2400 (turb Clase II)	11,00	75,00	38.360	87	489	1
5047100__R__	MTGR 1000	1000 - 2200 (turb Clase II)	15,00	90,00	46.480	86	694	1
5047112__R__	MTGR 1120	900 - 1900 (turb Clase II)	15,00	90,00	53.660	86	945	1
5047125__R__	MTGR 1250	800 - 1800 (turb Clase II)	22,00	160,00	76.780	89	1147	1
5047140__R__	MTGR 1400	750 - 1600 (turb Clase II)	30,00	200,00	95.200	91	1628	1
5047160__R__	MTGR 1600	650 - 1400 (turb Clase II)	30,00	200,00	111.870	91	1888	1
5047180__R__	MTGR 1800	600 - 1250 (turb Clase II)	75,00	315,00	150.670	91	2670	1
5047200__R__	MTGR 2000	500 - 1100 (turb Clase II)	75,00	315,00	179.660	100	3600	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	105	776	685	285	483	387	400	353	315
MTGR 450	115	795	765	320	541	435	445	398	354
MTGR 500	131	956	862	360	597	490	502	450	400

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

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

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

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

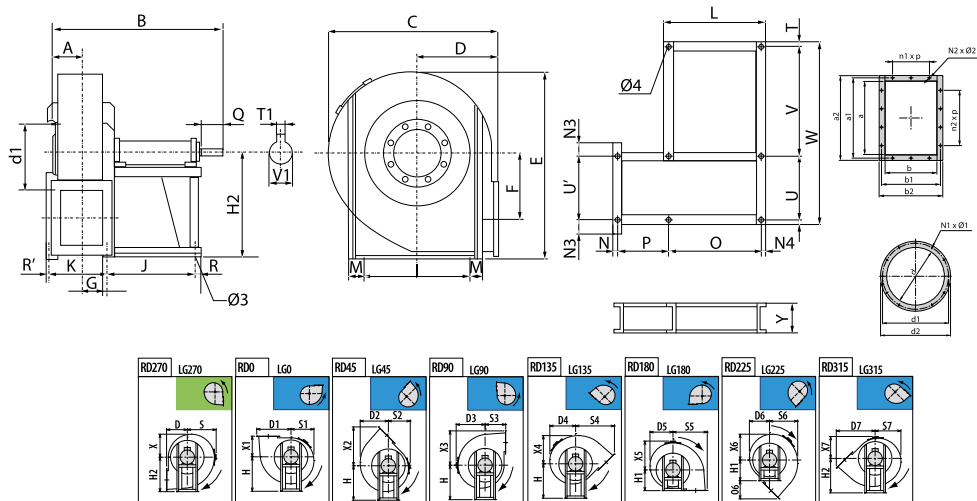
Model	O	O6	P	Q	R	S	S1	S2	S3
MTGR 560	477	347	341	110	33	570	485	425	400
MTGR 630	477	386	372	110	33	630	540	476	450

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

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

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

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



Model	A	B	C	D	D1	D2	D3	D4	D5
MTGR 1400	344	1887	2325	1000	1625	1395	1325	1272	1145
MTGR 1600	387	2175	2620	1120	1814	1572	1500	1434	1277
MTGR 1800	431	2270	2760	1250	2030	1790	1710	1610	1470
MTGR 2000	600	2395	3300	1400	2267	1970	1900	1811	1634

Model	D6	D7	E	F	G	H	H1	H2	I
MTGR 710	497	937	1446	558	221	670	500	670	772
MTGR 800	562	1045	1622	625	260	755	560	755	862
MTGR 900	633	1179	1781	703	282	850	630	850	962
MTGR 1000	718	1322	1993	791	326	950	710	950	1056
MTGR 1120	793	1487	2252	891	353	1060	800	1060	1178
MTGR 1250	898	1671	2548	1003	384	1190	900	1190	1310
MTGR 1400	990	1856	2845	1116	449	1320	1000	1320	1450
MTGR 1600	1085	2075	3177	1250	488	1500	1120	1500	1640
MTGR 1800	1300	2322	3590	1395	531	1650	1250	1650	1830
MTGR 2000	1455	2595	3994	1563	599	1850	1400	1850	2030

Model	J	K	L	M	N	N1	N1xØ1	N2xØ2	N3
MTGR 710	551	415	629	27	27	39	Nº12 M8x25	14x12	71
MTGR 800	551	454	629	32	47	39	Nº12 M8x25	14x12	91
MTGR 900	551	497	629	32	47	39	Nº12 M8x25	14x14	91
MTGR 1000	607	541	697	36	67	45	Nº12 M10x30	14x14	99
MTGR 1120	760	632	850	45	55	45	Nº16 M10x30	16x14	111
MTGR 1250	760	694	850	45	55	45	Nº16 M10x30	14x14	110
MTGR 1400	780	783	890	55	85	55	Nº16 M10x30	18x14	120
MTGR 1600	917	890	1047	60	75	65	Nº24 M10x30	18x14	120
MTGR 1800	917	986	1047	60	65	65	Nº24 M10x30	20x18	130
MTGR 2000	917	1083	1047	60	85	65	Nº24 M10x30	24x18	170

Model	N4	O	O6	P	Q	R	R'	S	S1
MTGR 710	39	551	437	415	110	39	27	690	596
MTGR 800	39	551	485	454	110	39	47	782	672
MTGR 900	39	551	549	497	110	39	47	870	721

Model	N4	O	O6	P	Q	R	R'	S	S1
MTGR 1000	45	607	612	541	140	45	67	976	813
MTGR 1120	45	760	687	632	140	45	45	1084	932
MTGR 1250	45	760	771	694	140	45	55	1214	1048
MTGR 1400	55	780	856	783	170	55	85	1325	1145
MTGR 1600	65	917	955	890	210	65	75	1500	1277
MTGR 1800	65	917	1072	986	210	65	65	1710	1470
MTGR 2000	65	917	1195	1083	210	65	85	1900	1634

Model	S2	S3	S4	S5	S6	S7	T	T1	U
MTGR 710	497	500	937	825	719	662	27	14	772
MTGR 800	562	560	1045	919	811	749	32	16	862
MTGR 900	633	630	1179	1038	905	835	32	16	962
MTGR 1000	718	710	1322	1160	1015	936	36	18	1056
MTGR 1120	793	800	1487	1300	1123	1037	45	20	1178
MTGR 1250	898	900	1671	1464	1270	1163	45	20	1310
MTGR 1400	990	1000	1856	1625	1395	1272	55	22	1450
MTGR 1600	1085	1120	2075	1814	1572	1434	60	25	1640
MTGR 1800	1300	1250	2322	2030	1790	1610	60	28	1830
MTGR 2000	1455	1400	2595	2267	1970	1811	60	28	2030

Model	U'	V	V1	W	X	X1	X2	X3	X4
MTGR 710	772	807	48	1633	596	500	937	825	719
MTGR 800	862	842	55	1768	672	560	1045	919	811
MTGR 900	962	987	55	2013	721	630	1179	1038	905
MTGR 1000	1056	1036	65	2164	813	710	1322	1160	1015
MTGR 1120	1178	1066	75	2334	932	800	1487	1300	1123
MTGR 1250	1310	1230	75	2630	1048	900	1671	1464	1270
MTGR 1400	1450	1240	80	2800	1145	1000	1856	1625	1395
MTGR 1600	1640	1205	90	2965	1277	1120	2075	1814	1572
MTGR 1800	1830	1295	100	3245	1470	1250	2311	2030	1790
MTGR 2000	2030	1350	100	3500	1634	1400	2595	2267	1970

Model	X5	X6	X7	Y	a	a1	a2	b	b1
MTGR 710	690	662	497	180	453	497	533	322	366
MTGR 800	782	749	562	180	507	551	587	361	405
MTGR 900	870	835	633	180	569	629	669	404	464
MTGR 1000	976	936	718	200	638	698	738	453	513
MTGR 1120	1084	1037	793	220	715	775	815	507	567
MTGR 1250	1214	1163	898	220	801	871	921	569	639
MTGR 1400	1325	1272	990	220	898	968	1018	638	708
MTGR 1600	1500	1434	1085	220	1007	1077	1127	715	785

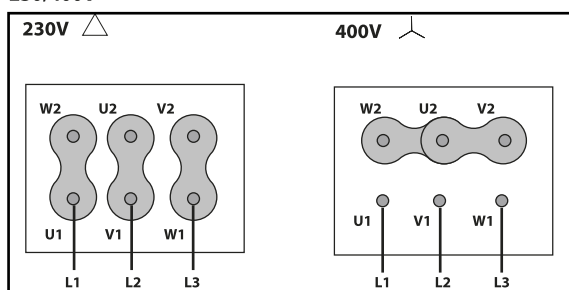
Model	X5	X6	X7	Y	a	a1	a2	b	b1
MTGR 1800	1710	1610	1300	250	1130	1210	1270	801	881
MTGR 2000	1900	1811	1455	250	1267	1347	1407	898	978

Model	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4
MTGR 710	402	455	497	535	2x125	3x125	19	20
MTGR 800	441	505	551	585	2x125	3x125	19	20
MTGR 900	504	565	629	665	2x160	3x160	19	20
MTGR 1000	553	635	698	735	2x160	3x160	19	20
MTGR 1120	607	715	775	815	2x160	4x160	24	25
MTGR 1250	689	805	861	905	2x200	3x200	24	25
MTGR 1400	758	905	958	1005	3x200	4x200	24	25
MTGR 1600	835	1007	1067	1107	3x200	4x200	28	30
MTGR 1800	941	1130	1200	1250	3x200	5x200	28	30
MTGR 2000	1038	1260	1337	1380	4x200	6x200	28	30

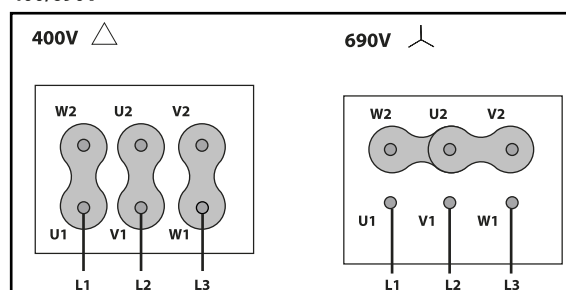
Wiring diagram

Wiring diagram Nº 1

230/400V



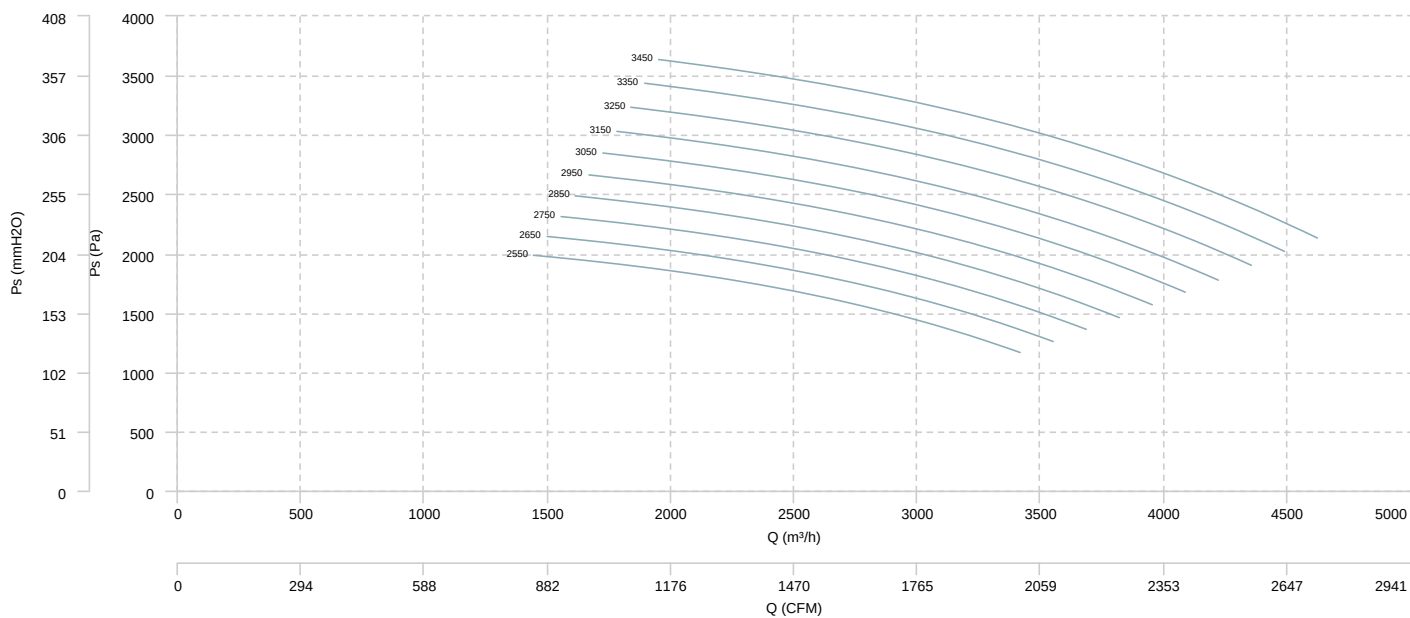
400/690V



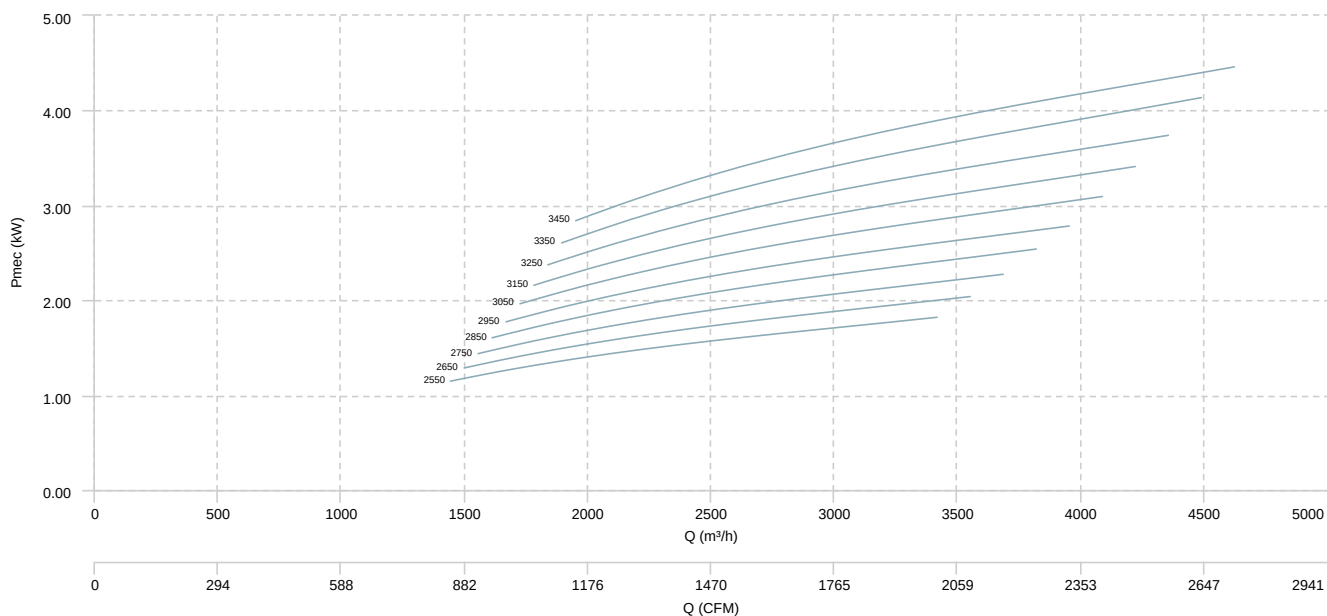
CHARACTERISCTIC CURVE

MTGR 400

AIR FLOW - PRESSURE

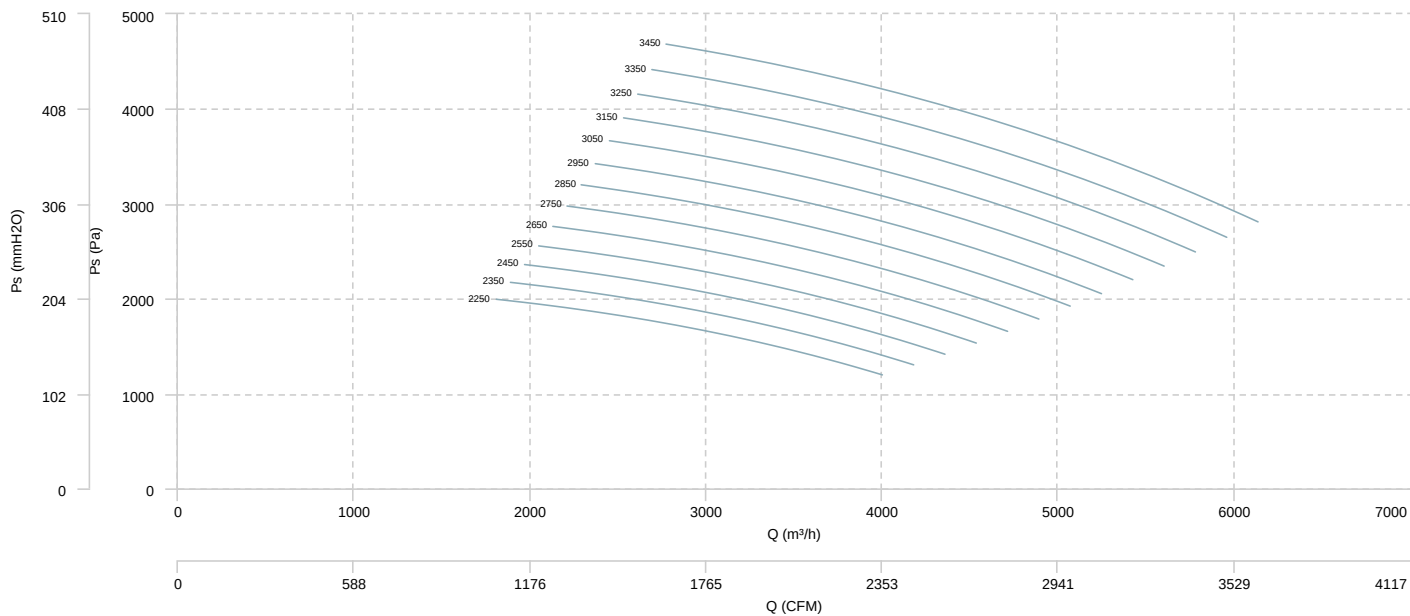


AIR FLOW - MECHANICAL POWER

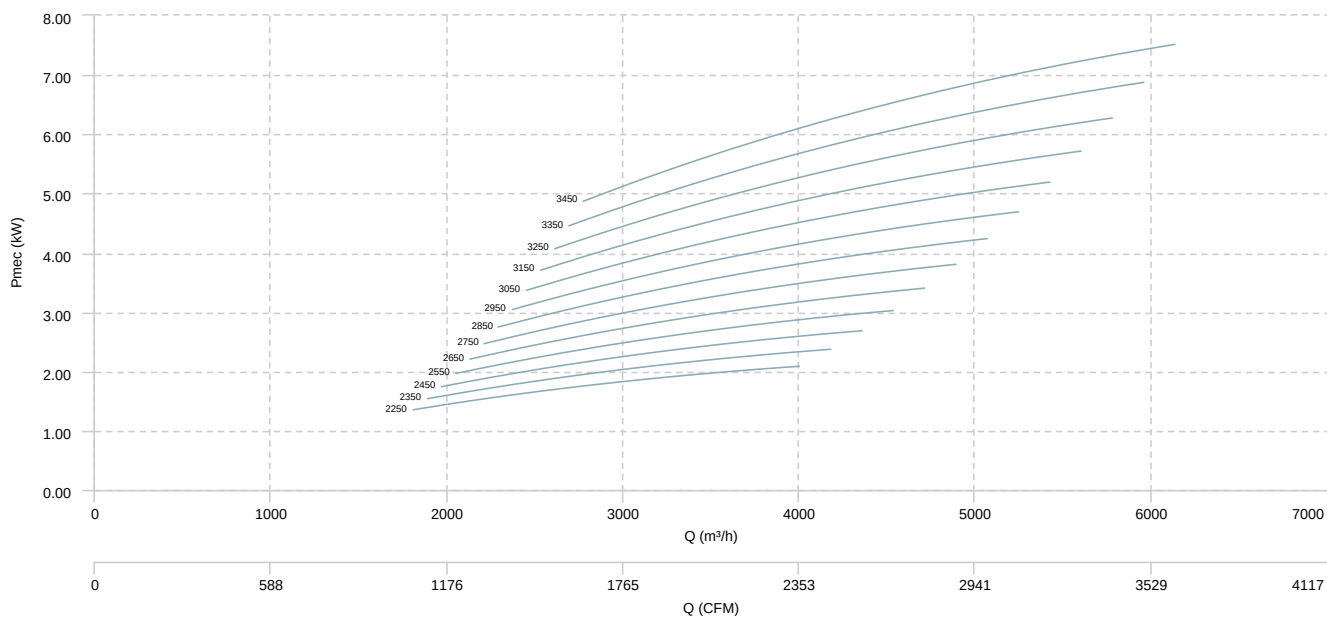


MTGR 450

AIR FLOW - PRESSURE

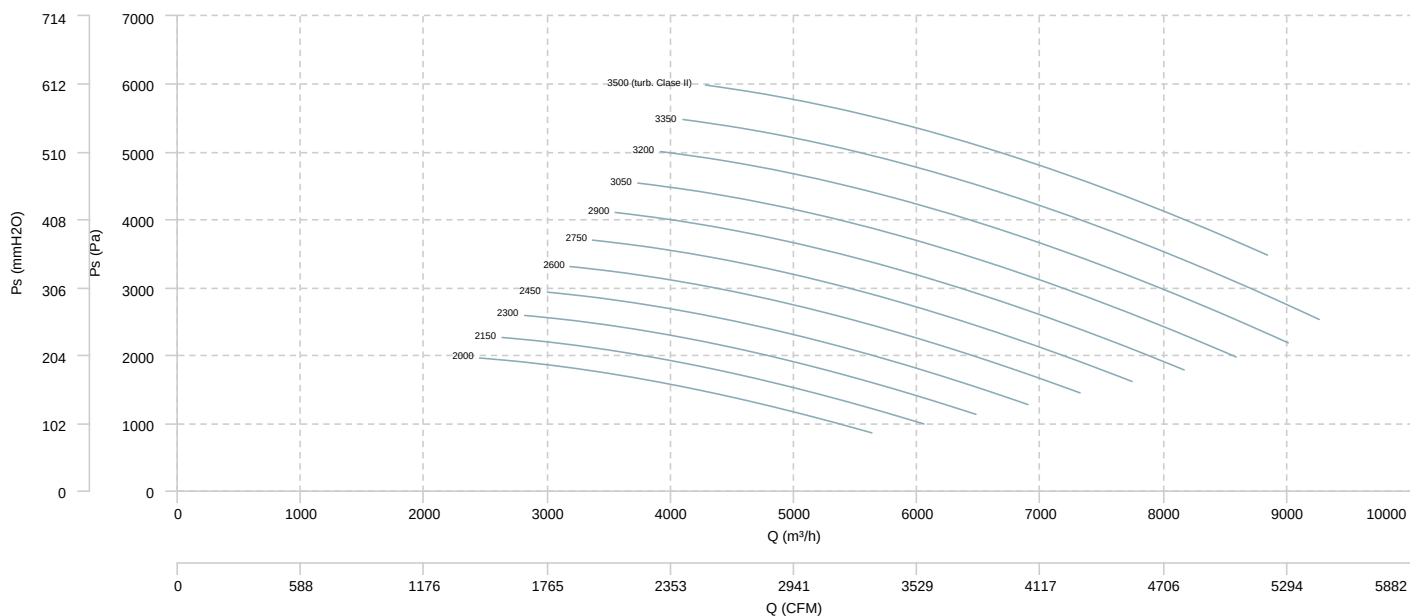


AIR FLOW - MECHANICAL POWER

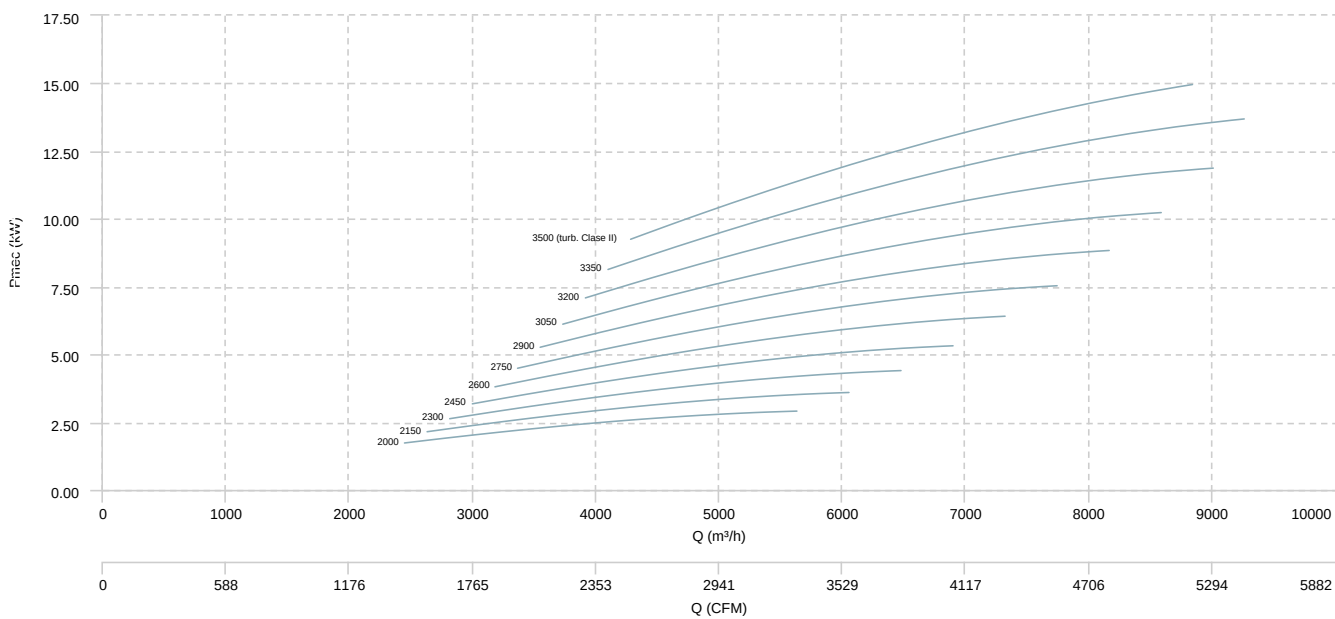


MTGR 500

AIR FLOW - PRESSURE

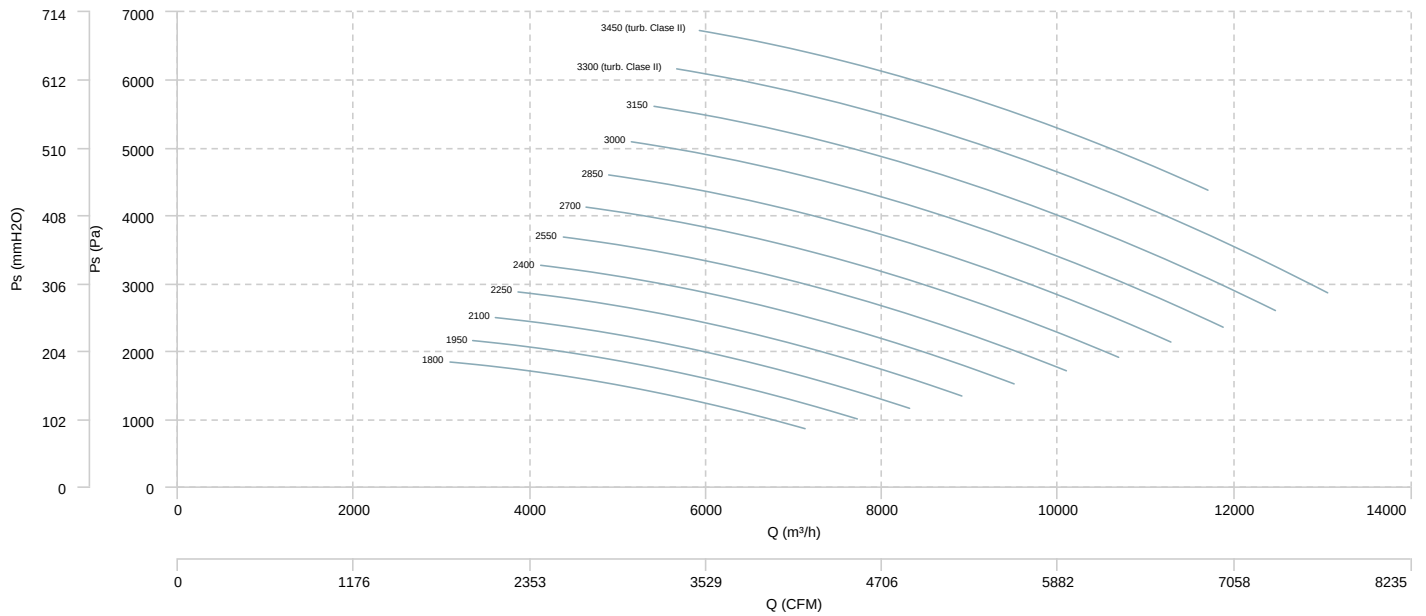


AIR FLOW - MECHANICAL POWER

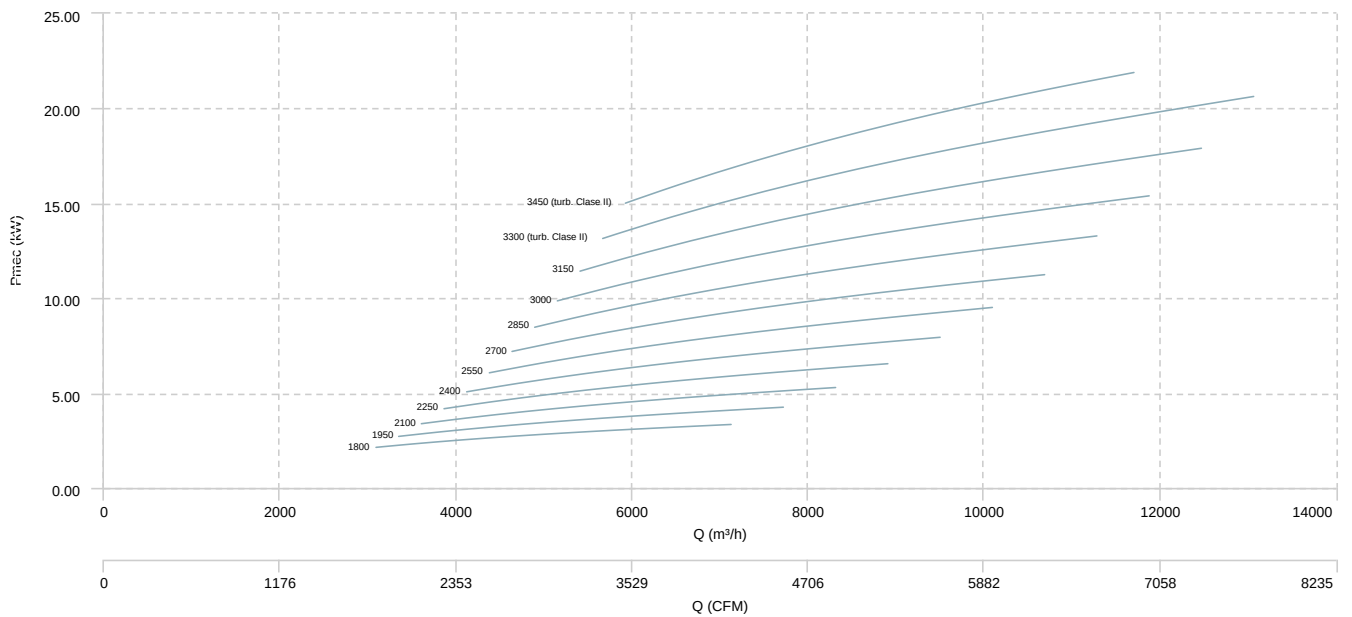


MTGR 560

AIR FLOW - PRESSURE

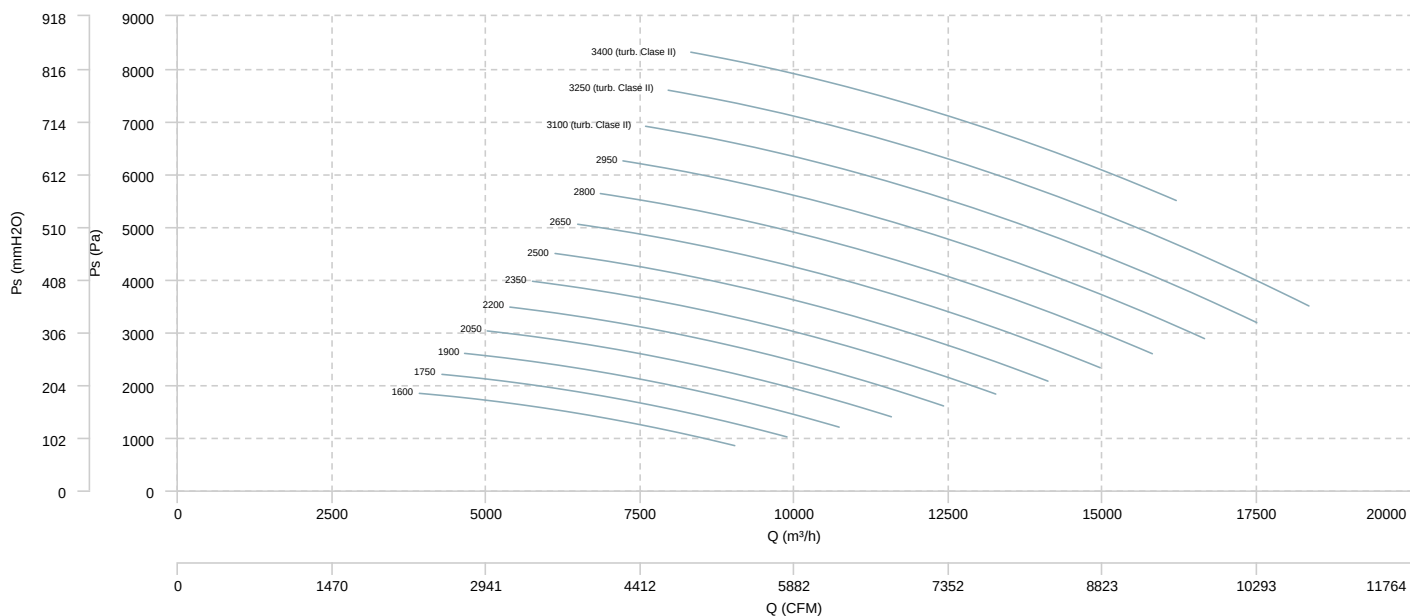


AIR FLOW - MECHANICAL POWER

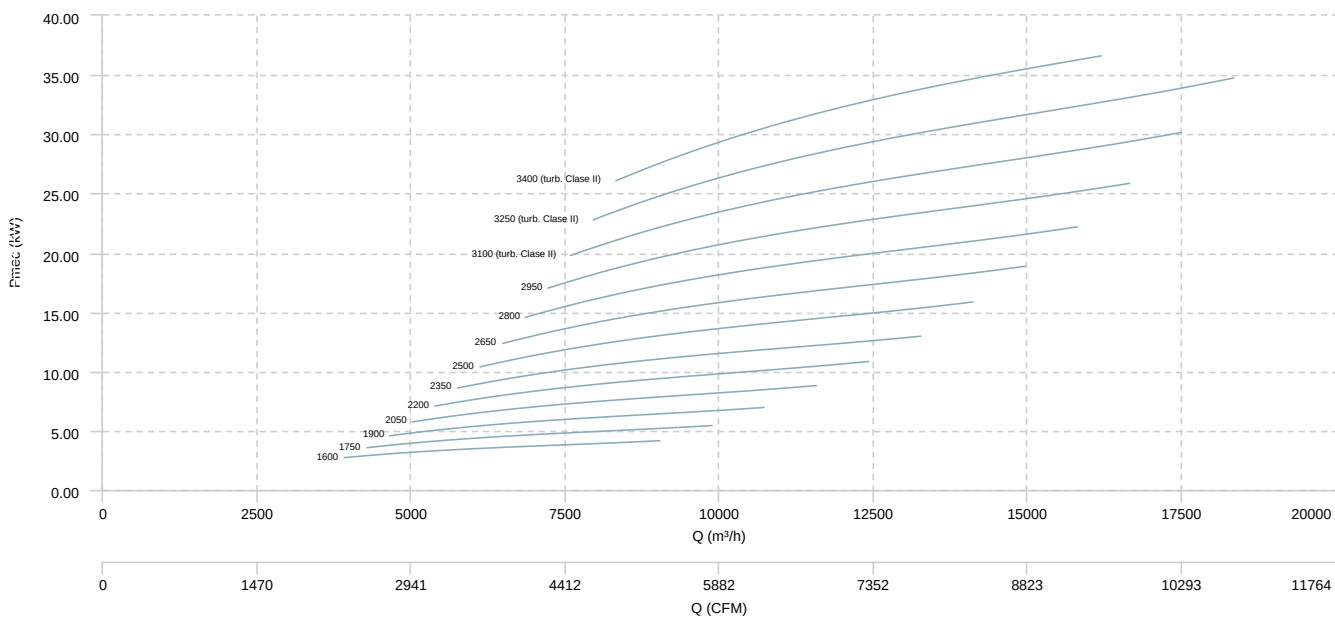


MTGR 630

AIR FLOW - PRESSURE

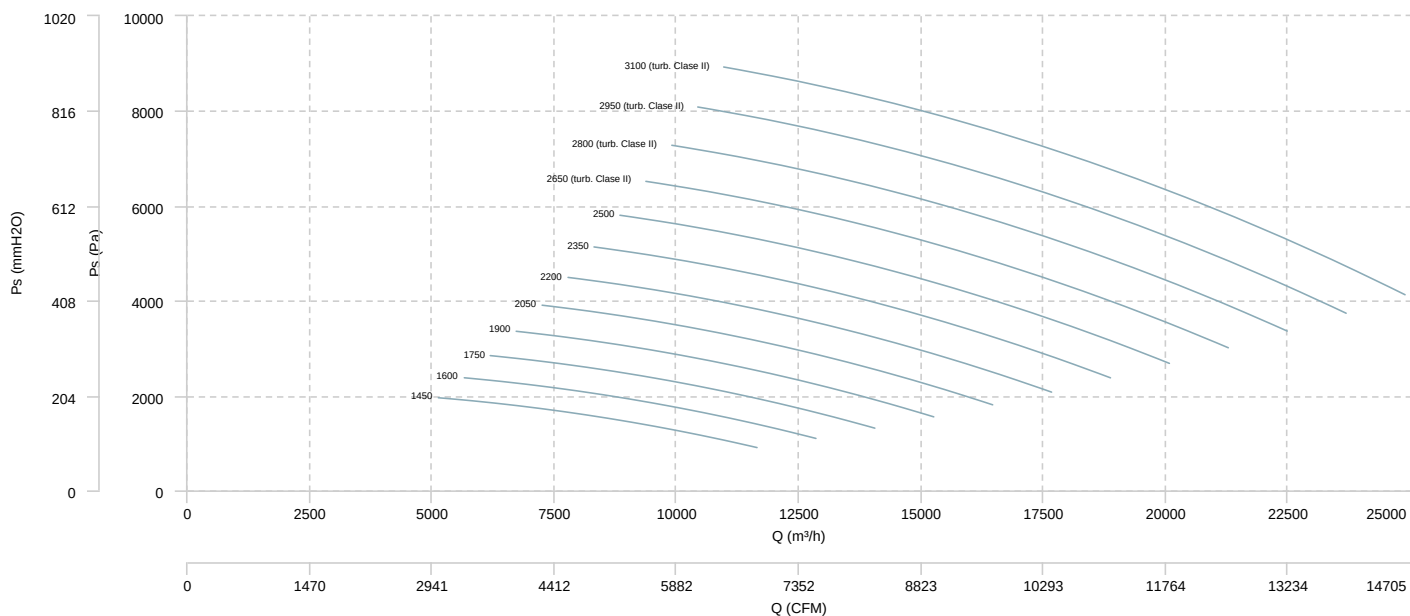


AIR FLOW - MECHANICAL POWER

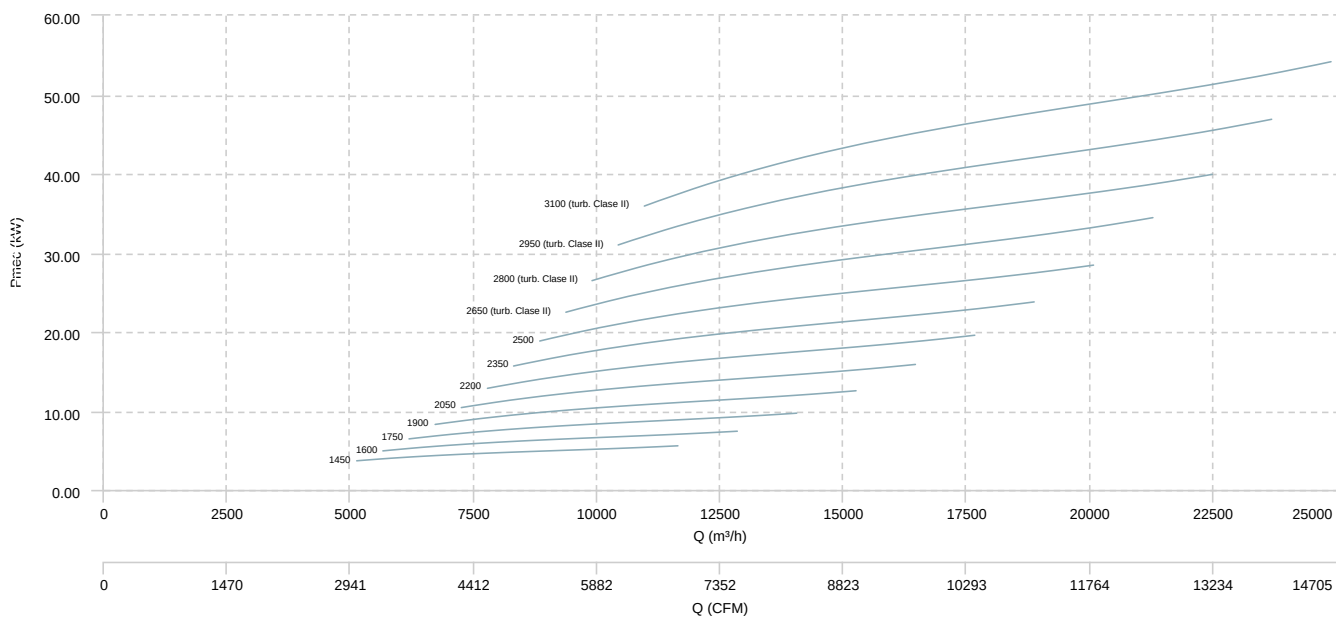


MTGR 710

AIR FLOW - PRESSURE

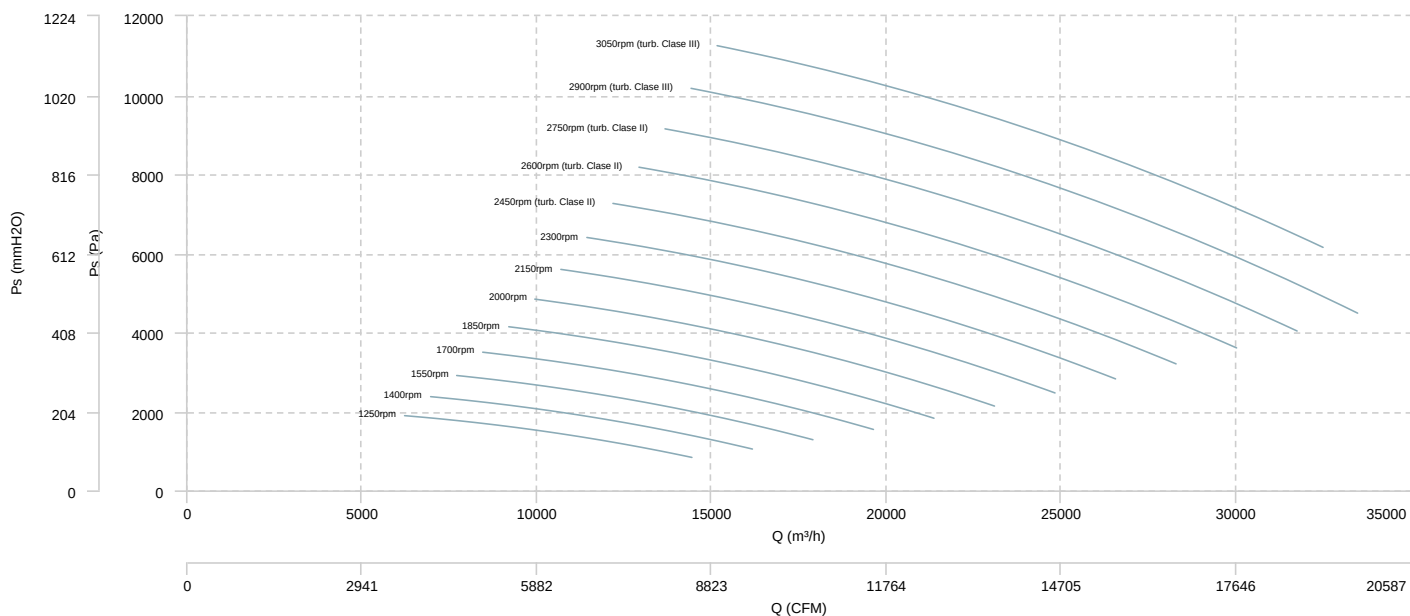


AIR FLOW - MECHANICAL POWER

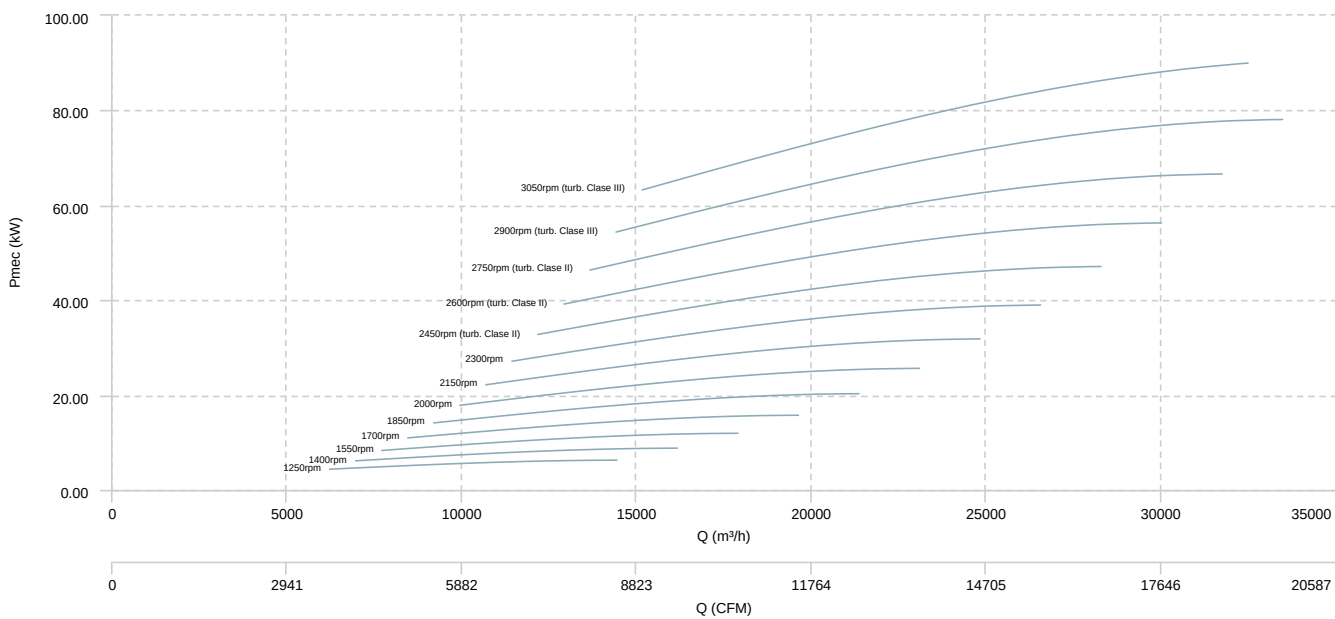


MTGR 800

AIR FLOW - PRESSURE

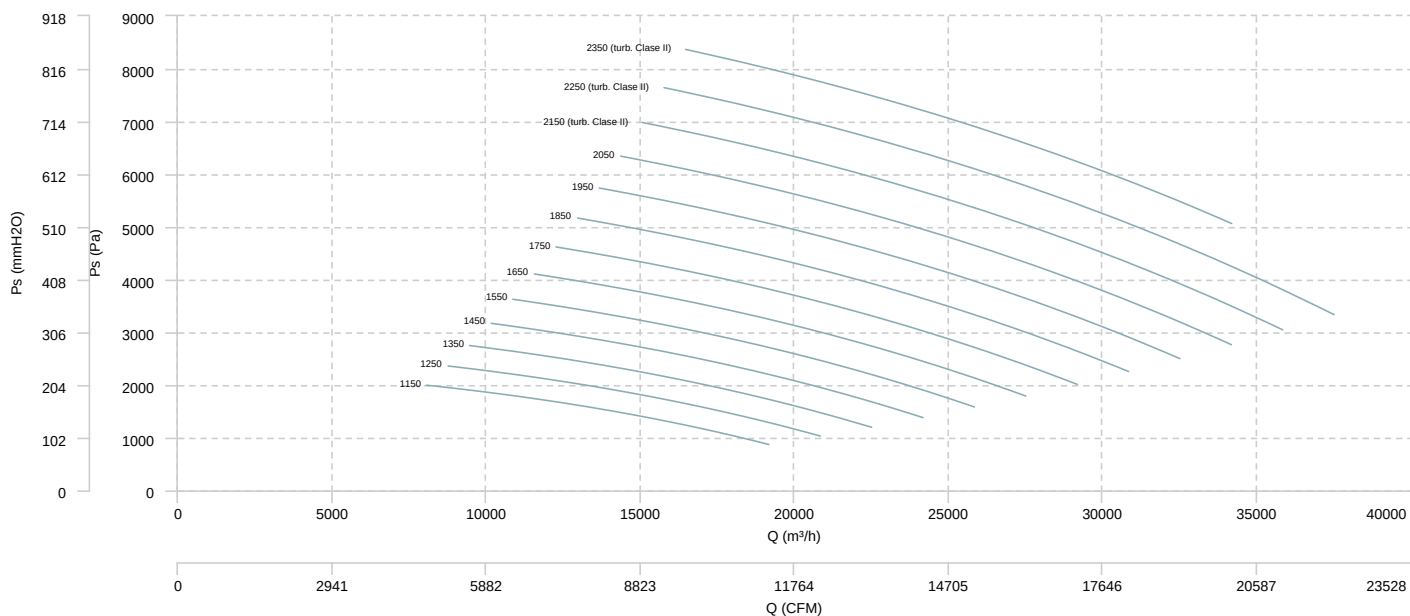


AIR FLOW - MECHANICAL POWER

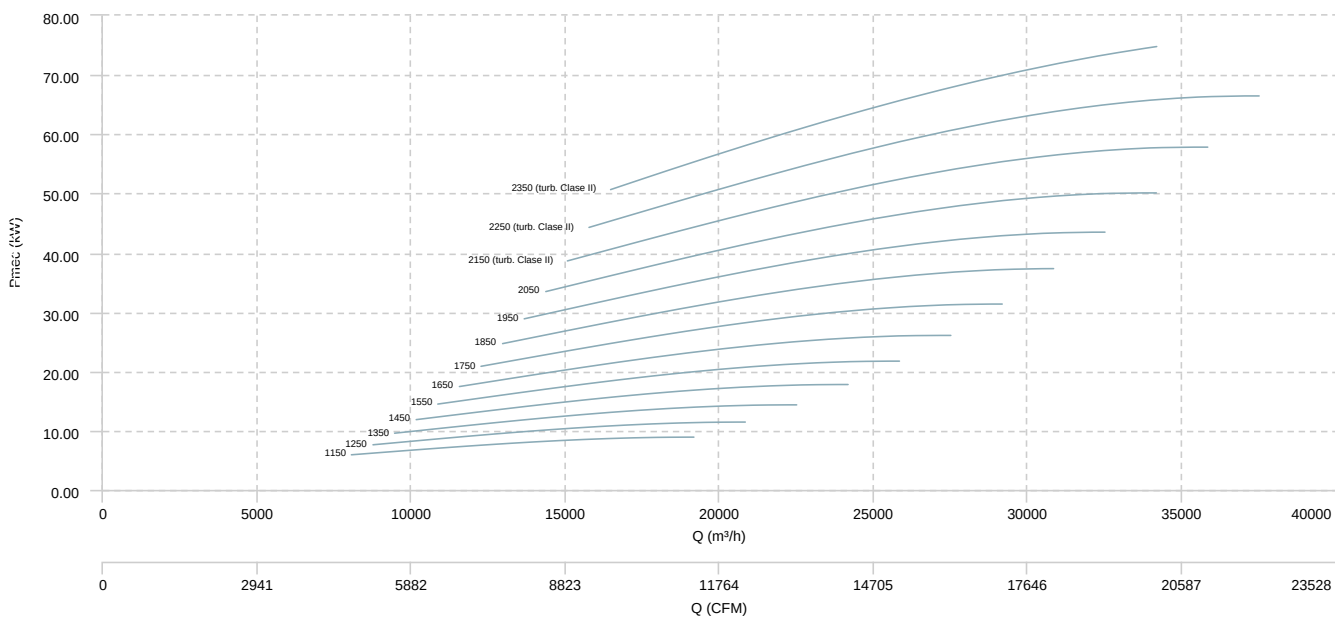


MTGR 900

AIR FLOW - PRESSURE

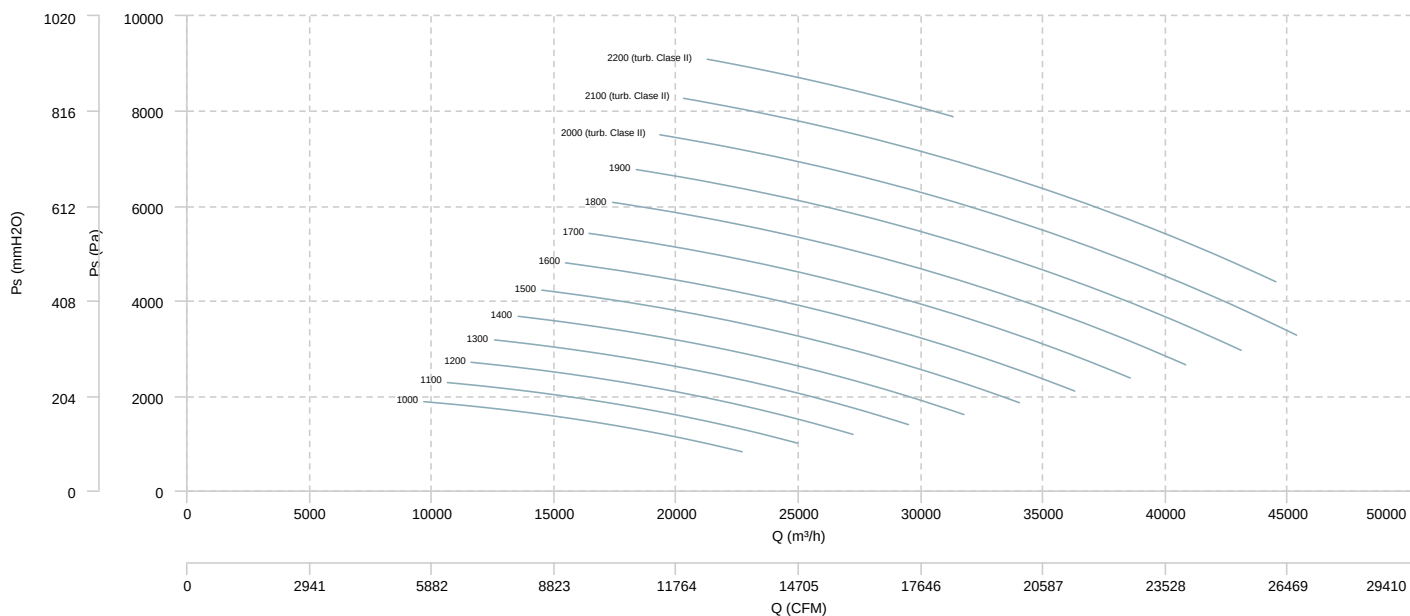


AIR FLOW - MECHANICAL POWER

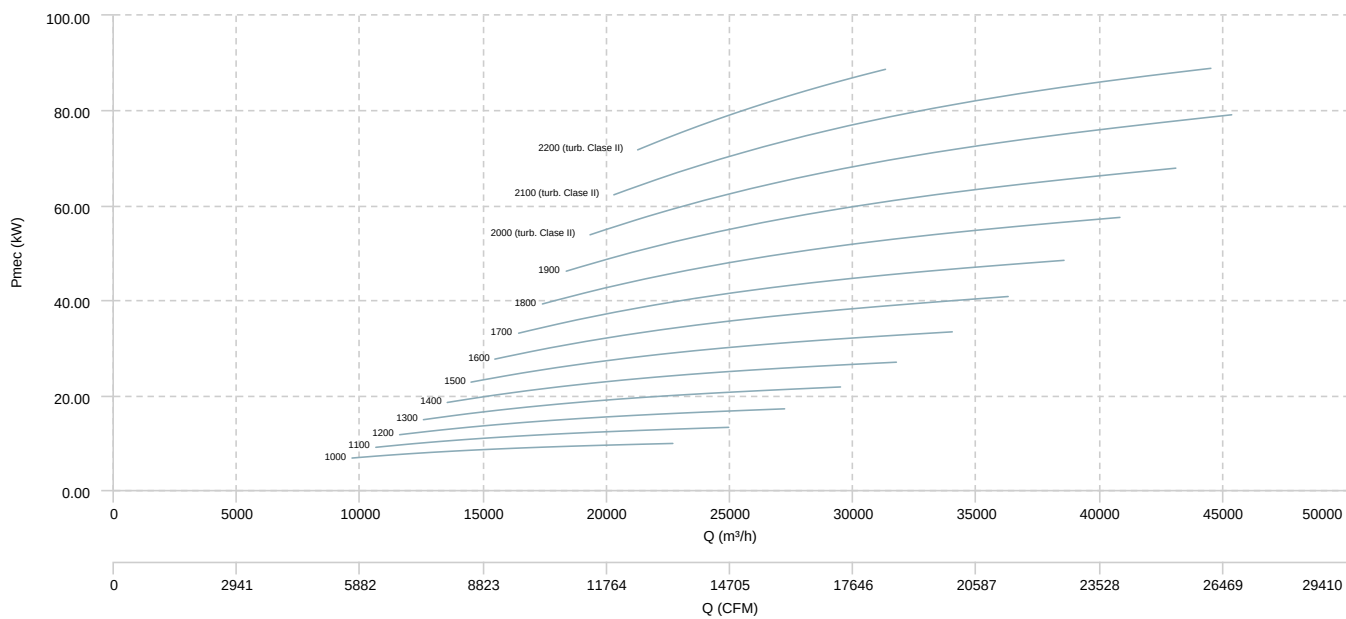


MTGR 1000

AIR FLOW - PRESSURE

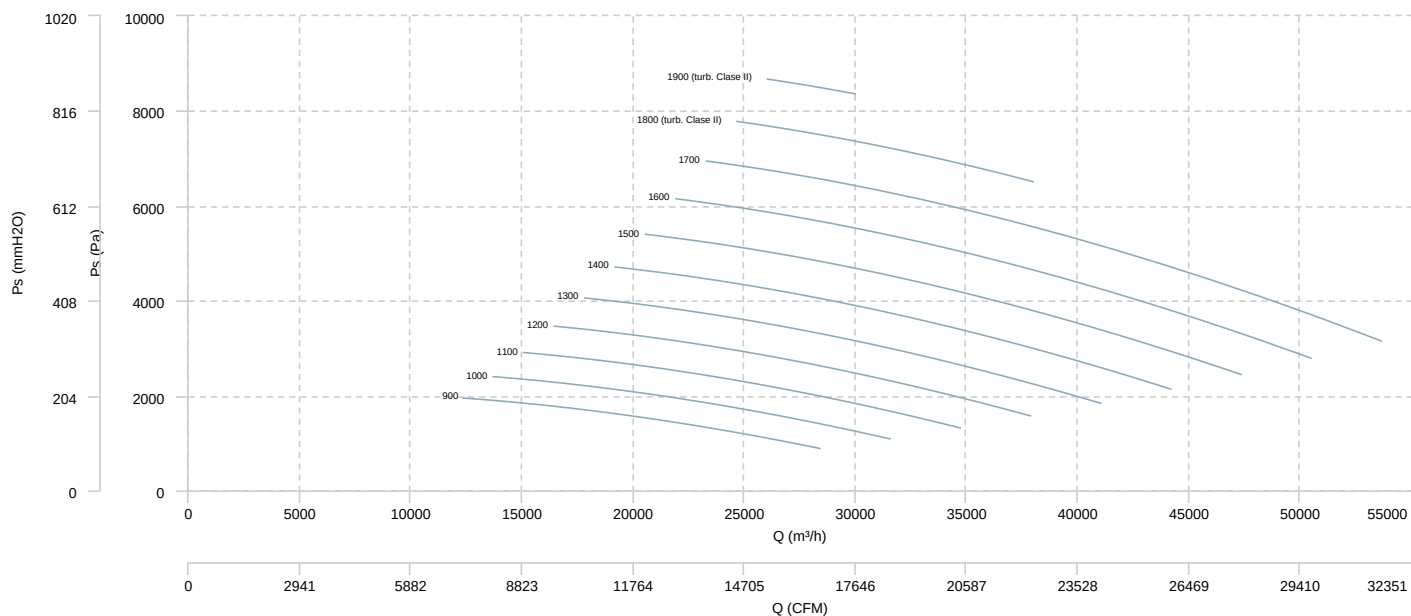


AIR FLOW - MECHANICAL POWER

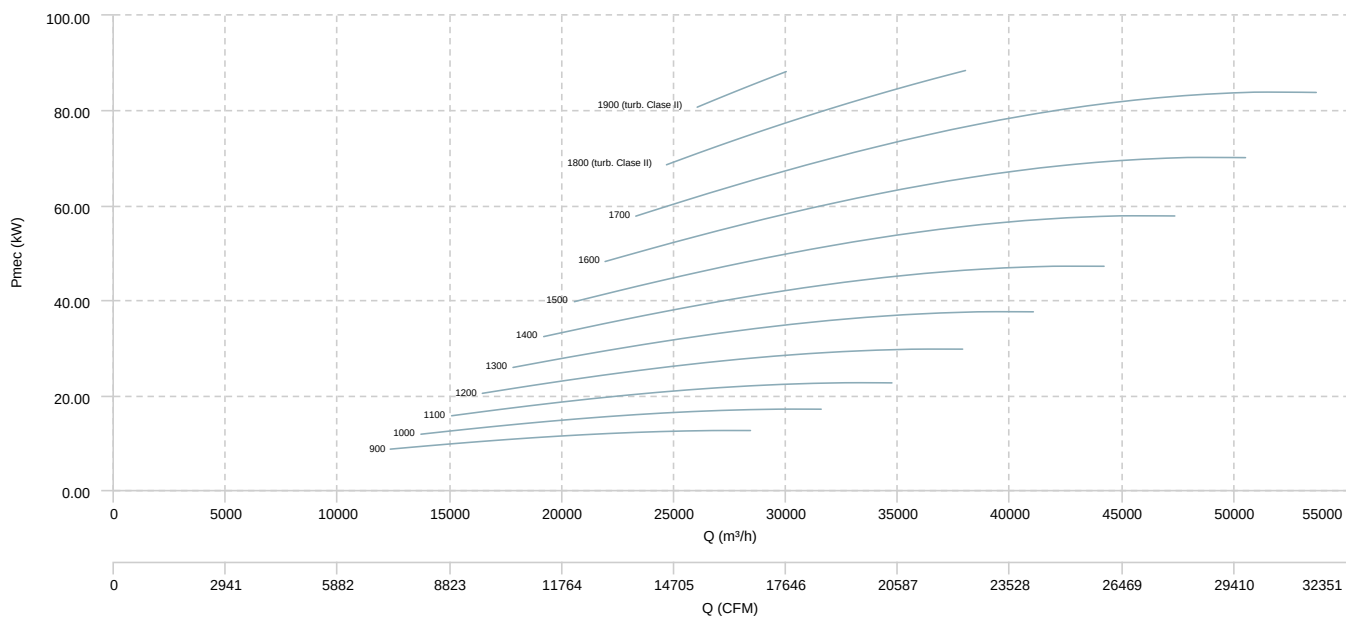


MTGR 1120

AIR FLOW - PRESSURE

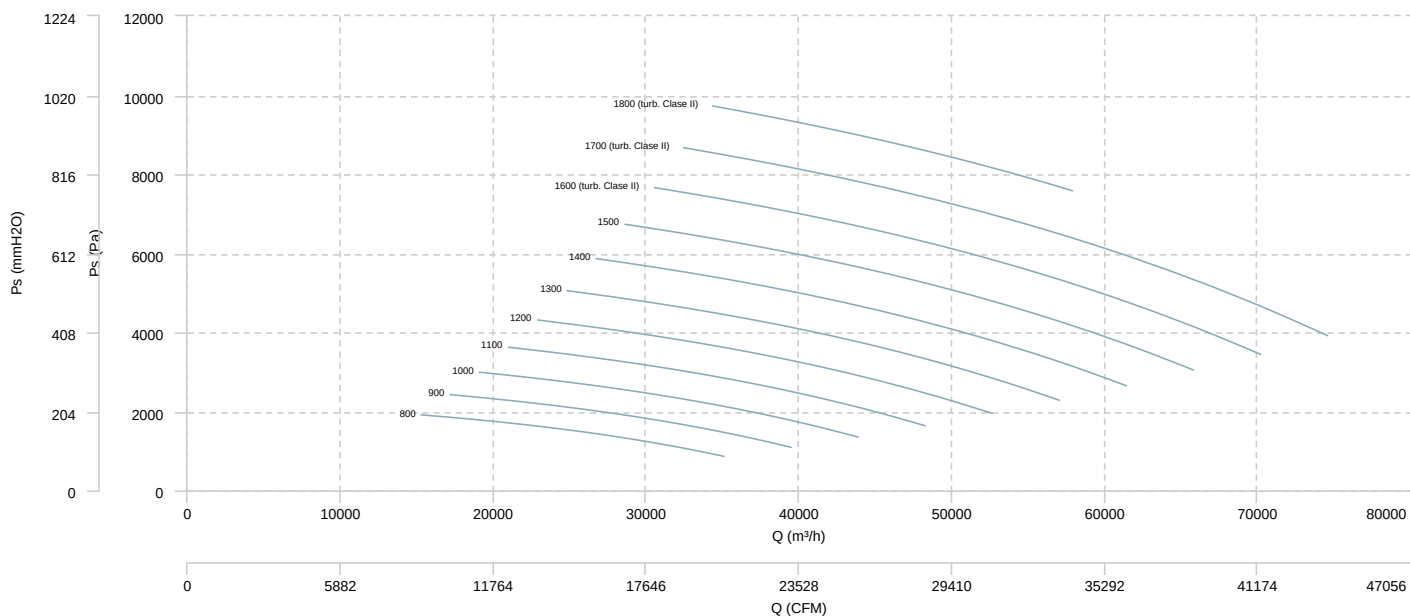


AIR FLOW - MECHANICAL POWER

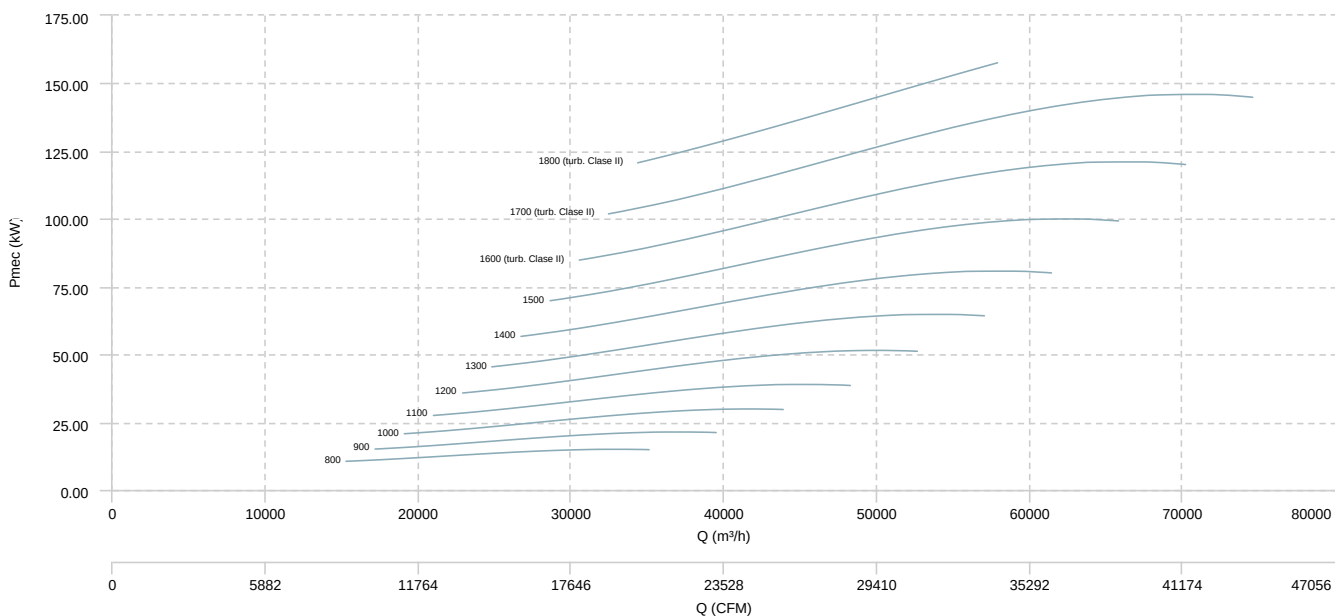


MTGR 1250

AIR FLOW - PRESSURE

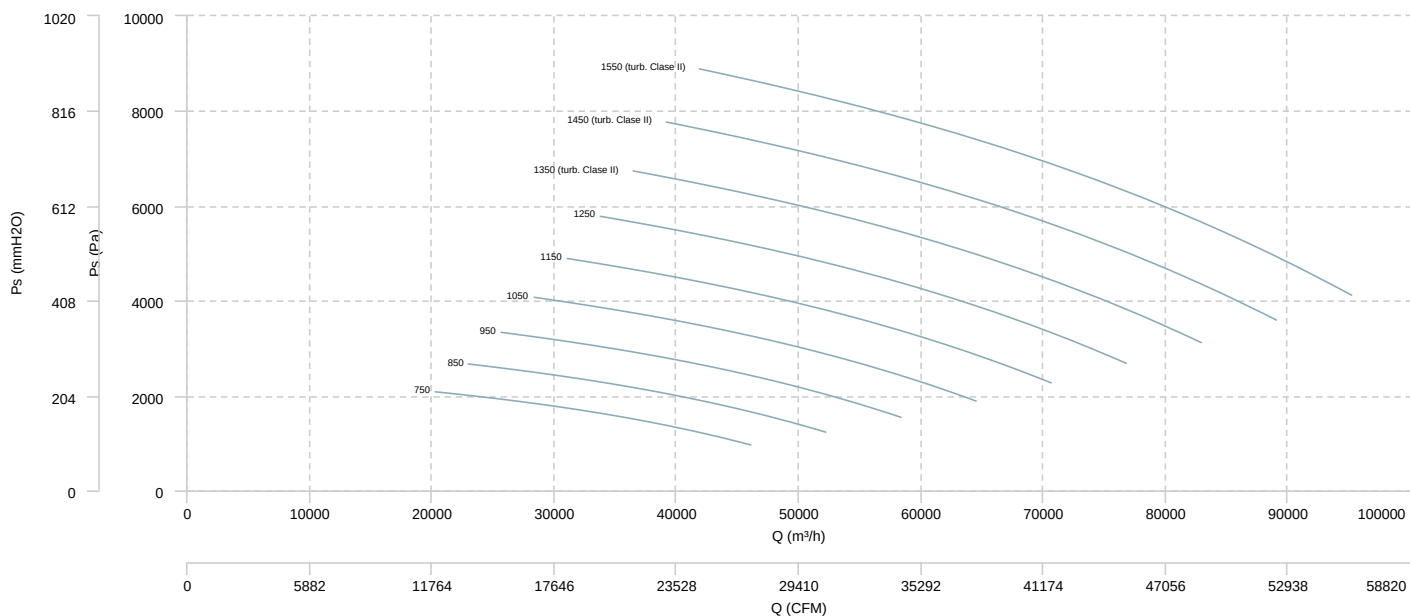


AIR FLOW - MECHANICAL POWER

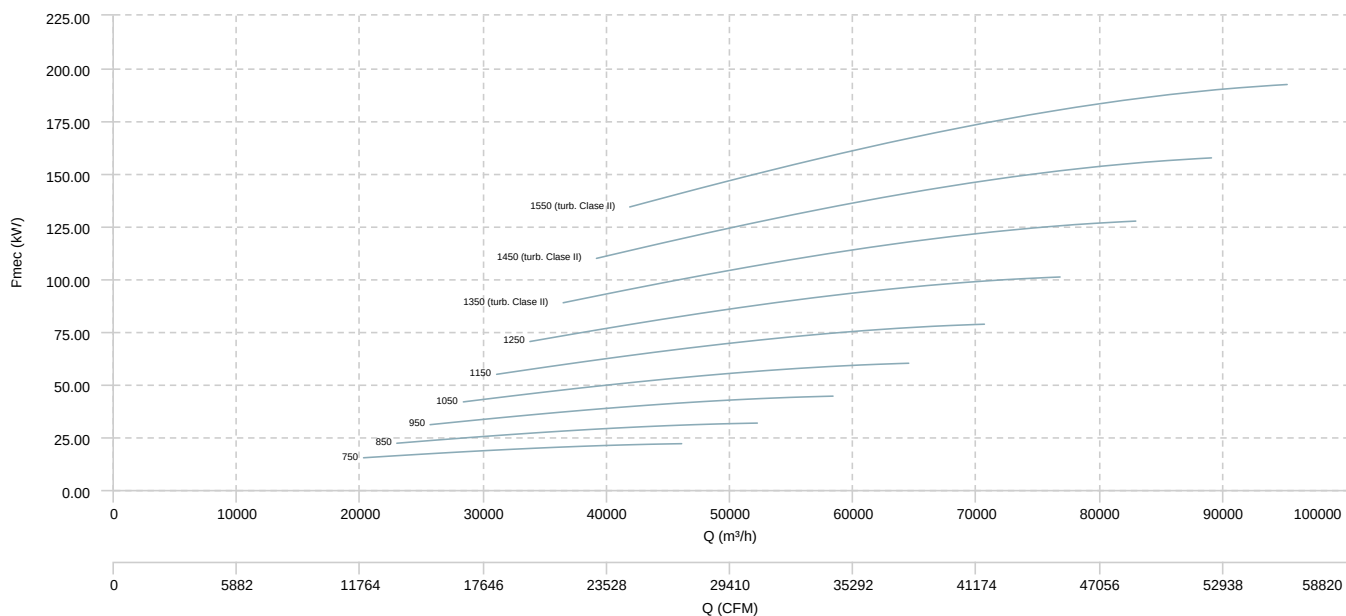


MTGR 1400

AIR FLOW - PRESSURE

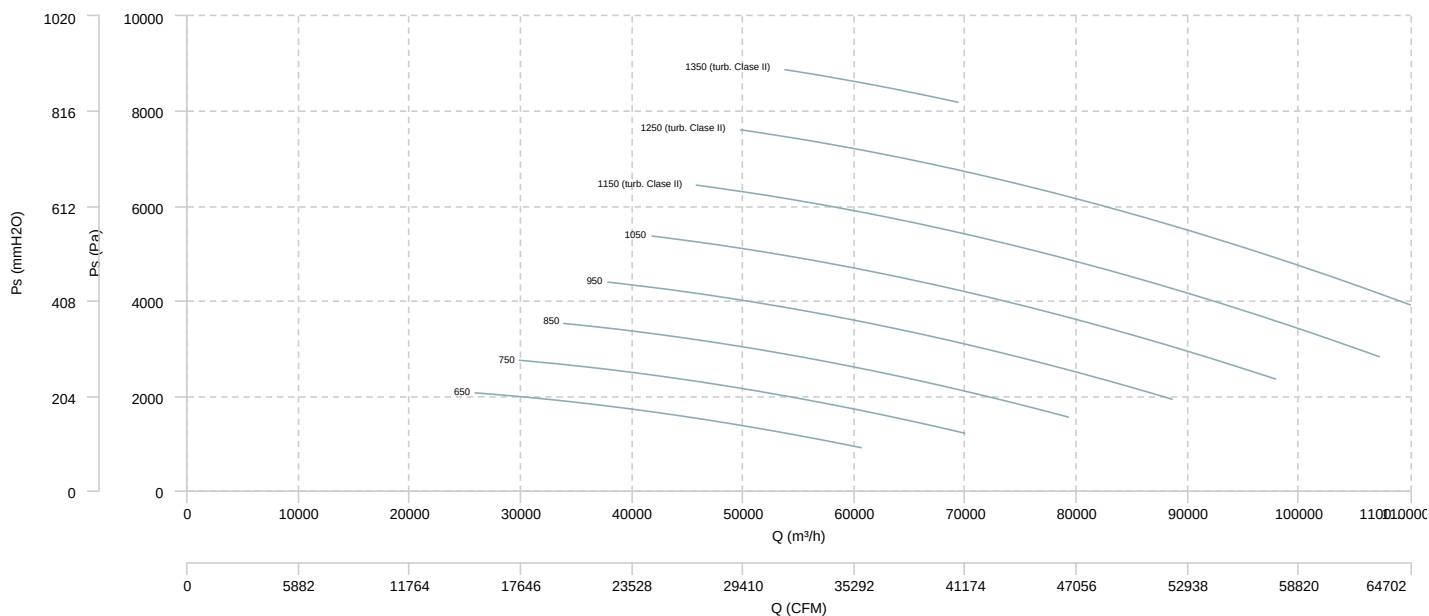


AIR FLOW - MECHANICAL POWER

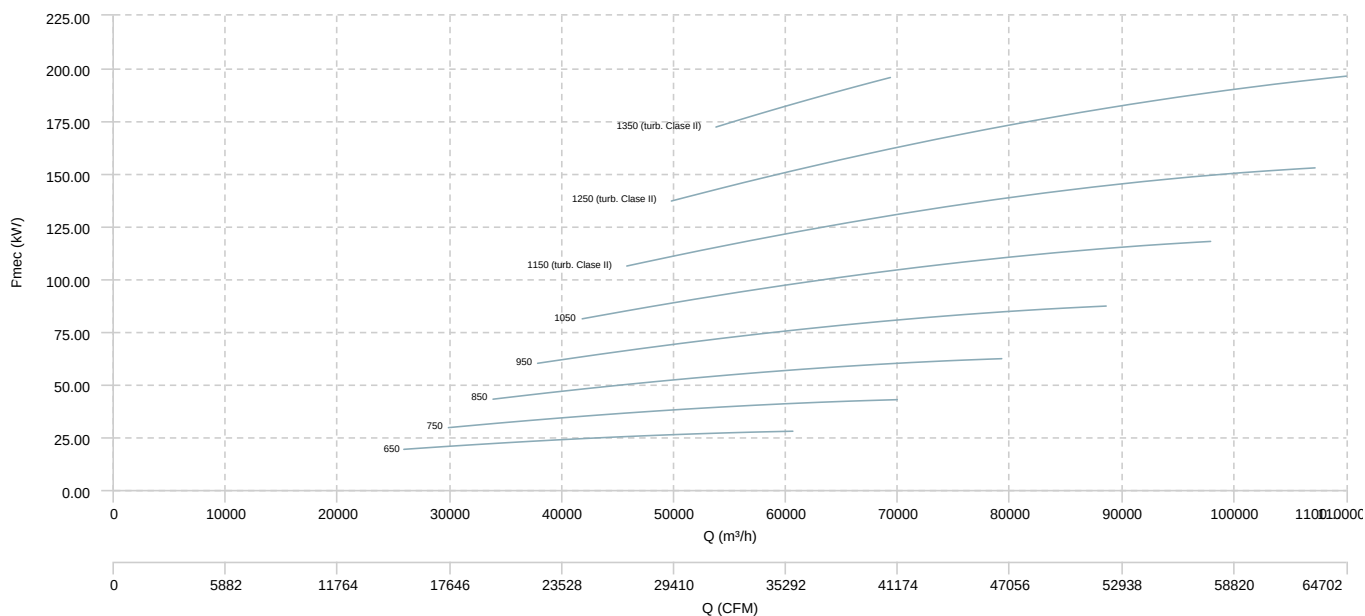


MTGR 1600

AIR FLOW - PRESSURE

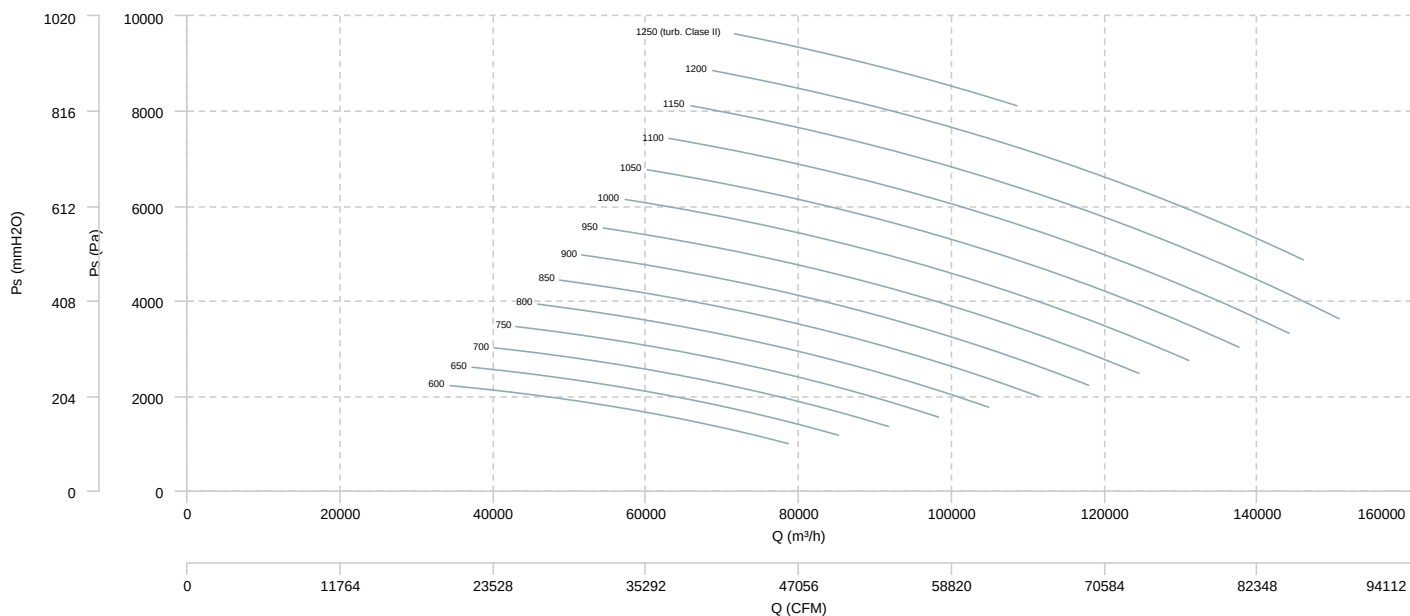


AIR FLOW - MECHANICAL POWER

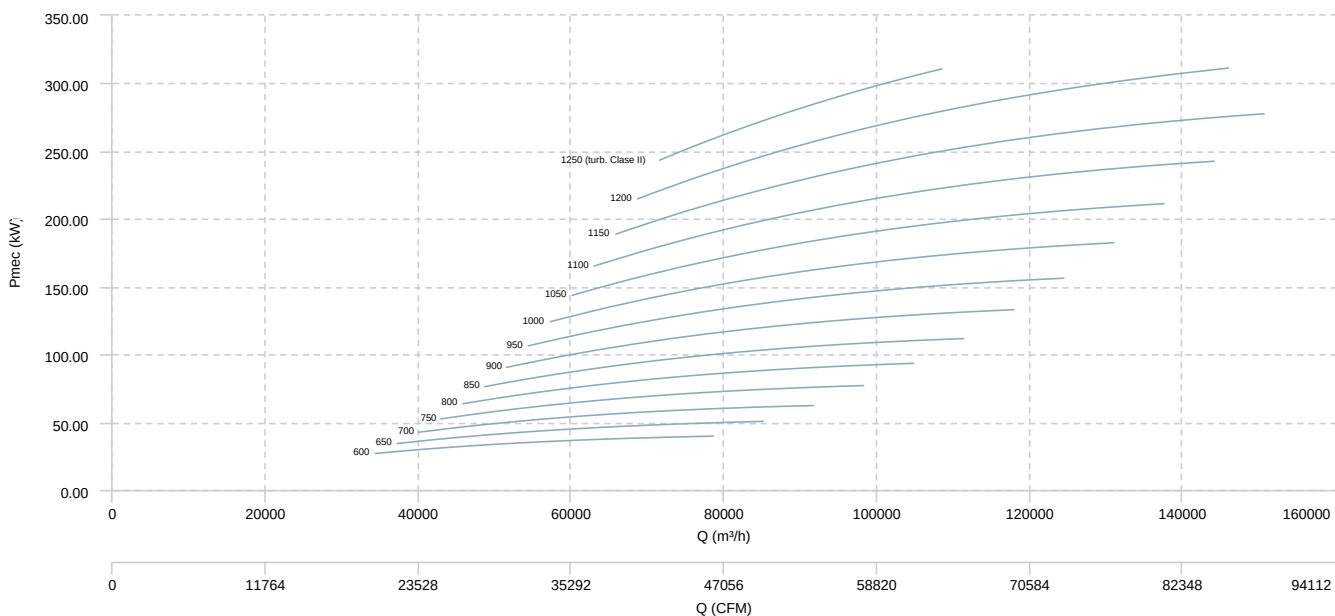


MTGR 1800

AIR FLOW - PRESSURE

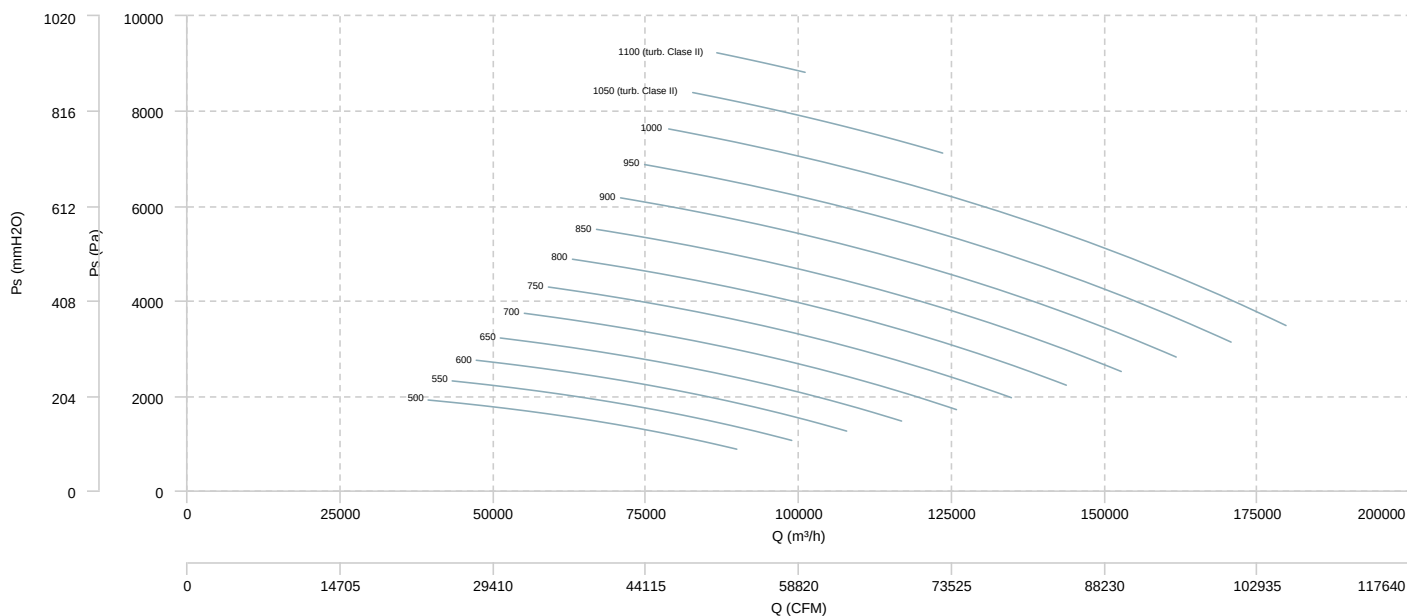


AIR FLOW - MECHANICAL POWER

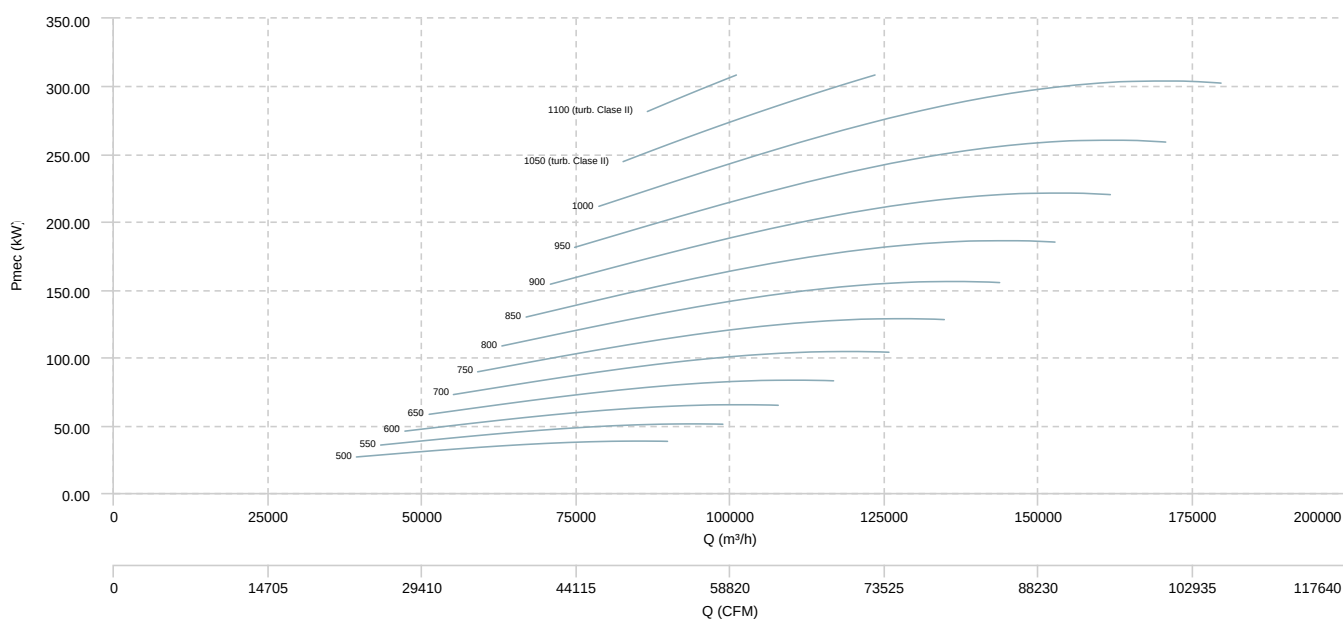


MTGR 2000

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
MTGR 400 (2550)	Inlet	56	68	74	78	79	75	68	65	83
MTGR 450 (2250)	Inlet	60	72	78	82	83	78	72	69	87
MTGR 500 (2000)	Inlet	63	75	81	85	86	81	75	72	90
MTGR 560 (1800)	Inlet	63	75	81	85	86	82	75	72	91
MTGR 630 (1600)	Inlet	64	76	82	86	87	83	76	73	91
MTGR 710 (1450)	Inlet	66	78	85	89	90	85	79	76	94
MTGR 900 (1150)	Inlet	70	82	88	92	93	88	82	79	97
MTGR 1000 (1000)	Inlet	67	79	86	90	91	86	79	76	95
MTGR 1120 (900)	Inlet	69	81	87	91	92	88	81	78	96
MTGR 1250 (800)	Inlet	70	82	89	93	94	89	82	79	96
MTGR 1400 (750)	Inlet	73	85	92	96	97	92	86	83	101
MTGR 1600 (650)	Inlet	73	85	91	95	96	91	85	82	100
MTGR 1800 (600)	Inlet	74	86	93	97	98	93	87	84	102
MTGR 2000 (500)	Inlet	81	93	100	104	105	100	94	91	109

Notes:

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

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