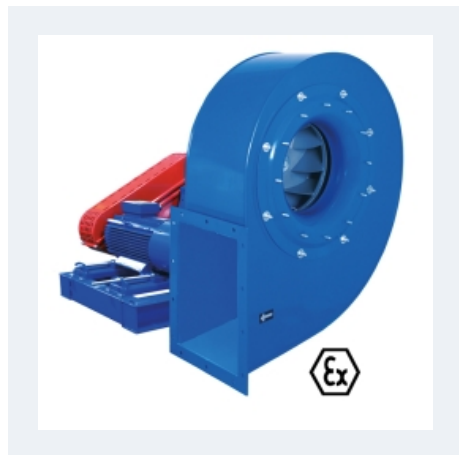


MTRU ATEX



ATEX MEDIUM 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.
- 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) or with motor supported on the pedestal side (configuration 9) full equipped fans including: motor, pulleys, belts, belts 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 air and pneumatic transport.
 - Dusty air or with low load of granulated materials.
 - Maximum working temperature: ambient: 60°C.

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

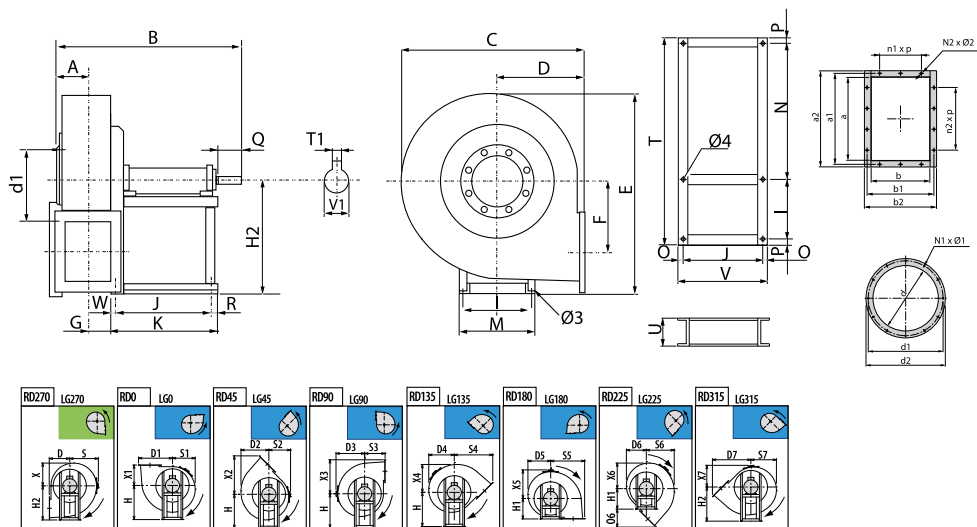
Code	Model	RPM	Min. Rated power kW	Max. Rated power kW	Max. Airflow m³/h	Sound db (A)**	Weight kg	Connect. diagram
	MTRU 250 ATEX	2500rpm - 3500rpm	0,37	2,20	1.180	52	30	1
	MTRU 280 ATEX	2500rpm - 3500rpm	0,37	3,00	1.660	54	37	1
	MTRU 310 ATEX	2250rpm - 3500rpm	0,55	4,00	2.600	56	55	1
	MTRU 350 ATEX	2250rpm - 3500rpm	0,55	4,00	3.570	59	72	1
	MTRU 400 ATEX	2000rpm - 3500rpm	1,50	11,00	5.030	60	82	1
	MTRU 450 ATEX	2000rpm - 3500rpm	2,20	18,50	10.690	69	98	1
	MTRU 500 ATEX	1800rpm - 3500rpm	3,00	22,00	13.000	71	135	1
	MTRU 560 ATEX	1600rpm - 3500rpm	4,00	30,00	17.940	72	182	1
	MTRU 630 ATEX	1450rpm - 3200rpm	5,50	37,00	25.140	75	218	1
	MTRU 710 ATEX	1250rpm - 2900rpm	7,50	55,00	34.710	72	325	1
	MTRU 800 ATEX	1150rpm - 2600rpm	11,00	75,00	46.850	73	400	1
	MTRU 900 ATEX	1000rpm - 2300rpm	15,00	90,00	57.790	75	485	1
	MTRU 1000 ATEX	900rpm - 2000rpm	15,00	90,00	66.160	72	710	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
MTRU 250 ATEX	86	496	471	195	314	255	276	235	212
MTRU 280 ATEX	95	592	505	200	353	287	305	262	231
MTRU 310 ATEX	105	610	557	225	393	316	332	288	256
MTRU 350 ATEX	115	783	630	255	437	359	375	325	288
MTRU 400 ATEX	127	820	685	285	487	387	400	353	311
MTRU 450 ATEX	141	847	765	320	542	435	445	398	354
MTRU 500 ATEX	157	985	862	360	597	490	502	450	400

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

Model	J	K	M	N1xØ1	N2xØ2	O	O6	P	Q
MTRU 250 ATEX	210	288	255	Nº8 M6x20	8x12	17	165	13,5	40
MTRU 280 ATEX	284	347	324	Nº8 M6x20	8x12	23	191	18	50
MTRU 310 ATEX	284	347	324	Nº8 M6x20	10x12	23	212	18	50

Model	J	K	M	N1xØ1	N2xØ2	O	O6	P	Q
MTRU 350 ATEX	407	485	400	Nº8 M8x25	10x12	28	234	22,5	60
MTRU 400 ATEX	407	485	400	Nº8 M8x25	10x12	28	261	22,5	80
MTRU 450 ATEX	407	485	400	Nº8 M8x25	10x12	28	289	22,5	80
MTRU 500 ATEX	477	560	418	Nº12 M8x25	14x12	33	317	27	110

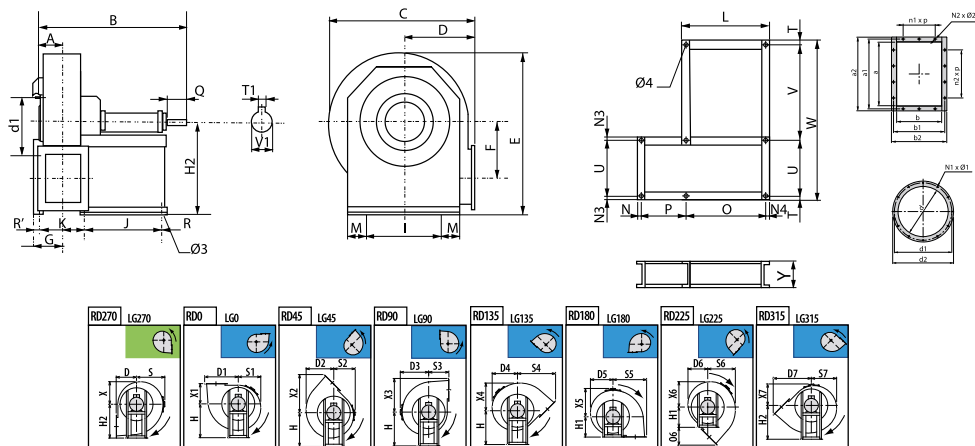
Model	R	S	S1	S2	S3	S4	S5	S6	S7
MTRU 250 ATEX	17	276	212	215	195	360	314	255	235
MTRU 280 ATEX	23	305	231	226	200	391	353	287	262
MTRU 310 ATEX	23	332	256	253	225	437	393	316	288
MTRU 350 ATEX	28	375	288	278	255	489	437	359	325
MTRU 400 ATEX	28	400	311	306	285	543	487	387	353
MTRU 450 ATEX	28	445	354	342	320	609	542	435	398
MTRU 500 ATEX	33	502	400	380	360	676	597	490	450

Model	T	T1	U	V	V1	W	X	X1	X2
MTRU 250 ATEX	6	6	80	19	19	55	212	195	360
MTRU 280 ATEX	8	8	100	24	24	40	231	200	391
MTRU 310 ATEX	8	8	100	24	24	40	256	225	437
MTRU 350 ATEX	8	8	120	28	28	50	288	255	489
MTRU 400 ATEX	10	10	120	38	38	50	311	285	543
MTRU 450 ATEX	10	10	120	38	38	50	354	320	609
MTRU 500 ATEX	12	12	140	42	42	50	400	360	677

Model	X3	X4	X5	X6	X7	a	a1	a2	b
MTRU 250 ATEX	314	255	276	235	215	207	241	277	148
MTRU 280 ATEX	353	287	305	262	226	231	265	301	166
MTRU 310 ATEX	393	316	332	288	253	258	292	328	185
MTRU 350 ATEX	437	359	375	325	278	288	332	368	205
MTRU 400 ATEX	487	387	400	353	306	322	366	402	229
MTRU 450 ATEX	542	435	445	398	342	361	405	441	256
MTRU 500 ATEX	597	490	502	450	380	404	448	484	288

Model	b1	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4
MTRU 250 ATEX	182	218	205	241	275	1x112	1x112	10	12
MTRU 280 ATEX	200	236	228	265	298	1x112	1x112	12	15
MTRU 310 ATEX	219	255	255	292	325	1x112	2x112	12	15
MTRU 350 ATEX	249	285	285	332	365	1x125	2x125	14	15
MTRU 400 ATEX	273	309	320	366	400	1x125	2x125	14	15

Model	b1	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4
MTRU 450 ATEX	300	336	360	405	440	1x125	2x125	14	15
MTRU 500 ATEX	332	368	405	448	485	2x125	3x125	17	18



Model	A	B	C	D	D1	D2	D3	D4	D5
MTRU 560 ATEX	180	1058	970	400	657	555	570	542	485
MTRU 630 ATEX	200	1102	1080	450	733	619	630	603	550

Model	D6	D7	E	F	G	H	H1	H2	I
MTRU 560 ATEX	425	747	1155	390	161	670	400	670	632
MTRU 630 ATEX	476	836	1300	439	234	750	450	750	702

Model	J	K	L	M	N1	N1xØ1	N2xØ2	N3	N4
MTRU 560 ATEX	477	943	543	30	33	Nº12 M8x25	14x12	30	33
MTRU 630 ATEX	477	983	543	30	33	Nº12 M8x25	14x12	30	33

Model	O	O6	P	Q	R	S	S1	S2	S3
MTRU 560 ATEX	477	347	410	110	33	570	485	425	400
MTRU 630 ATEX	477	386	450	110	33	630	550	476	450

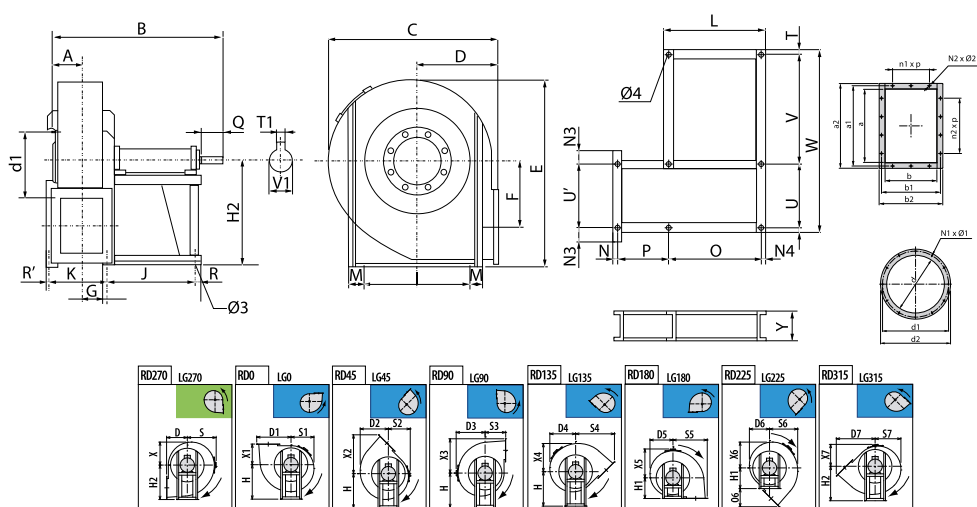
Model	S4	S5	S6	S7	T	T1	U	V	V1
MTRU 560 ATEX	747	667	555	542	30	14	632	678	48
MTRU 630 ATEX	836	733	619	603	30	14	702	708	48

Model	W	X	X1	X2	X3	X4	X5	X6	X7
MTRU 560 ATEX	1370	485	400	747	657	555	570	542	425

Model	W	X	X1	X2	X3	X4	X5	X6	X7
MTRU 630 ATEX	1470	550	450	836	733	619	630	603	476

Model	Y	a	a1	a2	b	b1	b2	d	d1
MTRU 560 ATEX	160	453	497	533	361	405	441	455	497
MTRU 630 ATEX	160	507	551	587	361	405	441	505	551

Model	d2	n1xp	n2xp	Ø3	Ø4
MTRU 560 ATEX	535	2x125	3x125	17	18
MTRU 630 ATEX	585	2x125	3x125	17	18



Model	A	B	C	D	D1	D2	D3	D4	D5
MTRU 710 ATEX	221	1241	1190	500	835	719	690	662	565
MTRU 800 ATEX	246	1306	1342	560	929	811	782	749	641
MTRU 900 ATEX	277	1360	1500	630	1038	905	870	835	721
MTRU 1000 ATEX	308	1565	1686	710	1171	1015	976	936	814

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

Model	J	K	L	M	N	N1	N1xØ1	N2xØ2	N3
MTRU 710 ATEX	551	497	629	27	27	39	Nº12 M8x25	14x14	71

Model	J	K	L	M	N	N1	N1xØ1	N2xØ2	N3
MTRU 800 ATEX	551	546	629	32	47	39	Nº12 M10x30	14x14	91
MTRU 900 ATEX	551	600	629	32	47	39	Nº16 M10x30	16x14	91
MTRU 1000 ATEX	607	657	697	36	67	45	Nº16 M10x30	14x14	99

Model	N4	O	O6	P	Q	R	R'	S	S1
MTRU 710 ATEX	39	551	444	497	110	39	27	690	565
MTRU 800 ATEX	39	551	493	546	110	39	47	782	641
MTRU 900 ATEX	39	551	550	600	110	39	47	870	721
MTRU 1000 ATEX	45	607	620	657	140	45	67	976	814

Model	S2	S3	S4	S5	S6	S7	T	T1	U
MTRU 710 ATEX	497	500	944	835	719	662	27	14	772
MTRU 800 ATEX	562	560	1053	929	811	749	32	16	862
MTRU 900 ATEX	633	630	1180	1038	905	835	32	16	962
MTRU 1000 ATEX	718	710	1330	1171	1015	936	36	18	1056

Model	U'	V	V1	W	X	X1	X2	X3	X4
MTRU 710 ATEX	772	807	48	1633	565	500	944	835	719
MTRU 800 ATEX	862	842	55	1768	641	560	1053	929	811
MTRU 900 ATEX	962	987	55	2013	721	630	1180	1038	905
MTRU 1000 ATEX	1056	1036	65	2164	814	710	1330	1171	1015

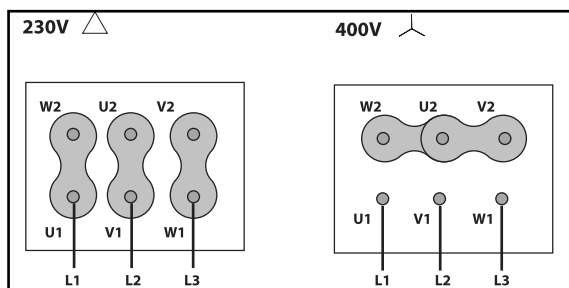
Model	X5	X6	X7	Y	a	a1	a2	b	b1
MTRU 710 ATEX	690	662	497	180	569	629	669	404	464
MTRU 800 ATEX	782	749	562	180	638	698	738	453	513
MTRU 900 ATEX	870	835	633	180	715	775	815	507	567
MTRU 1000 ATEX	976	936	718	200	801	871	921	569	639

Model	b2	d	d1	d2	n1xp	n2xp	Ø3	Ø4
MTRU 710 ATEX	504	565	629	665	2x160	3x160	19	20
MTRU 800 ATEX	553	635	698	735	2x160	3x160	19	20
MTRU 900 ATEX	607	715	775	815	2x160	4x160	19	20
MTRU 1000 ATEX	689	805	861	905	2x200	3x200	19	20

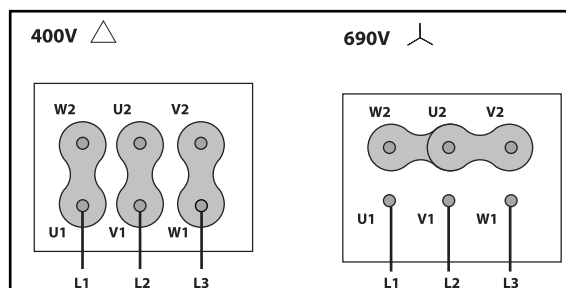
Wiring diagram

Wiring diagram N° 1

230/400V



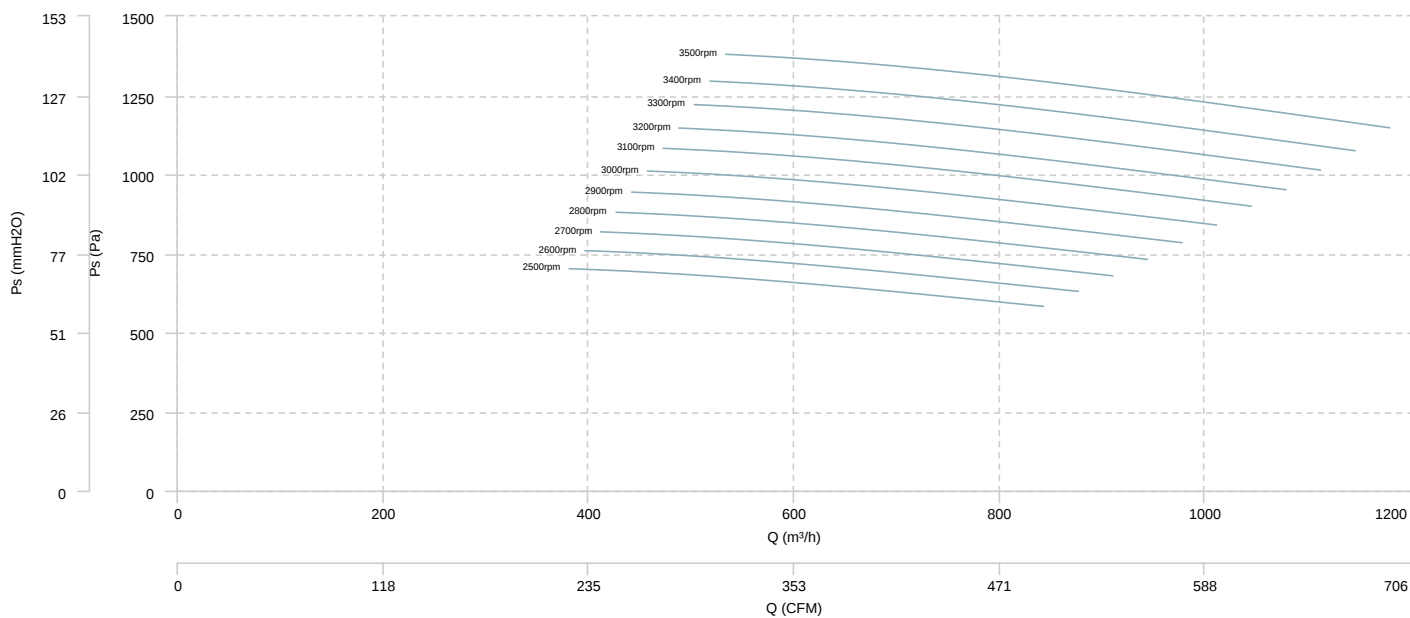
400/690V



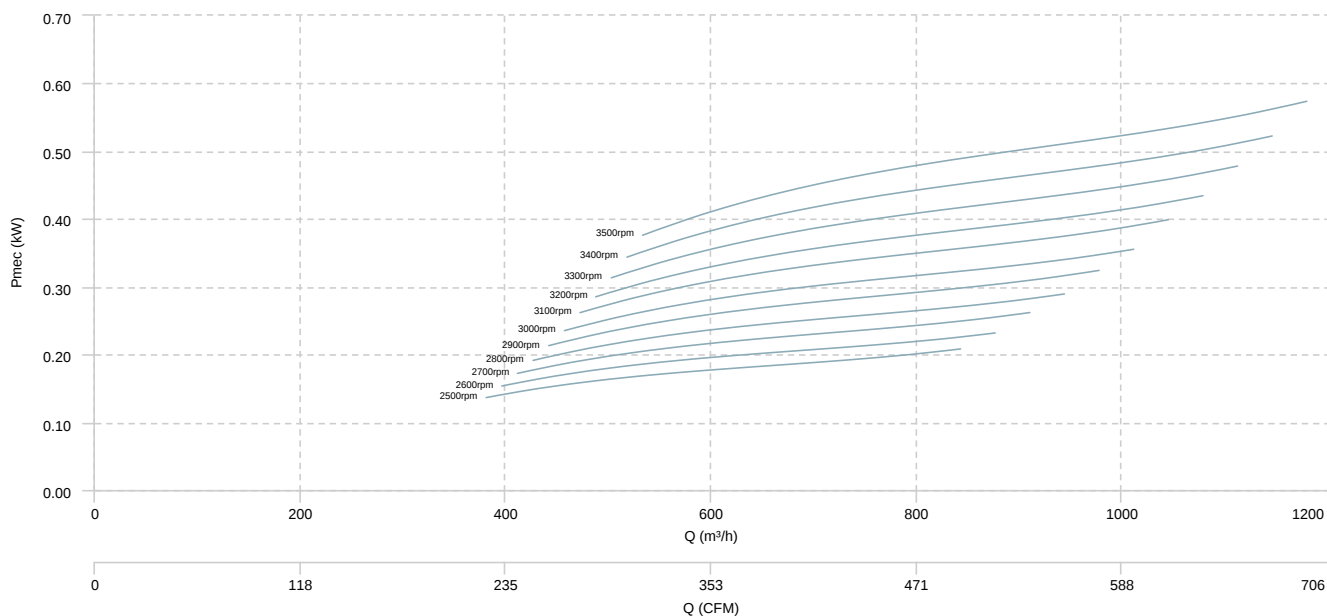
CHARACTERISCTIC CURVE

MTRU 250 ATEX

AIR FLOW - PRESSURE

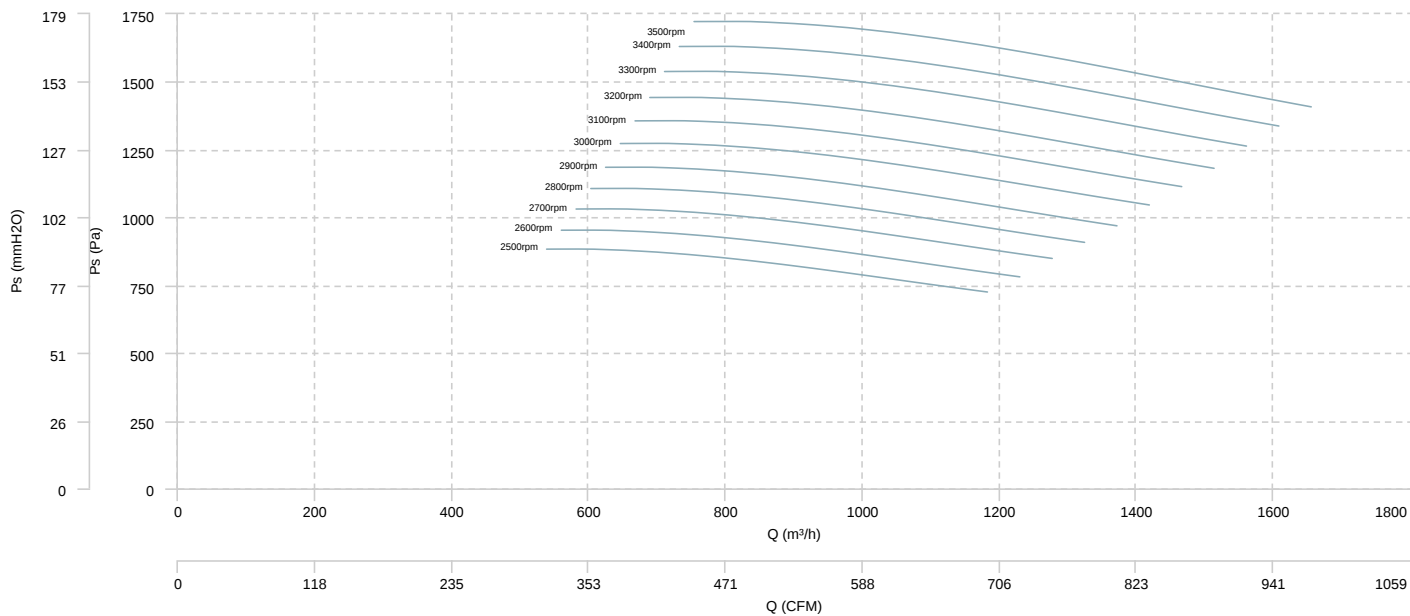


AIR FLOW - MECHANICAL POWER

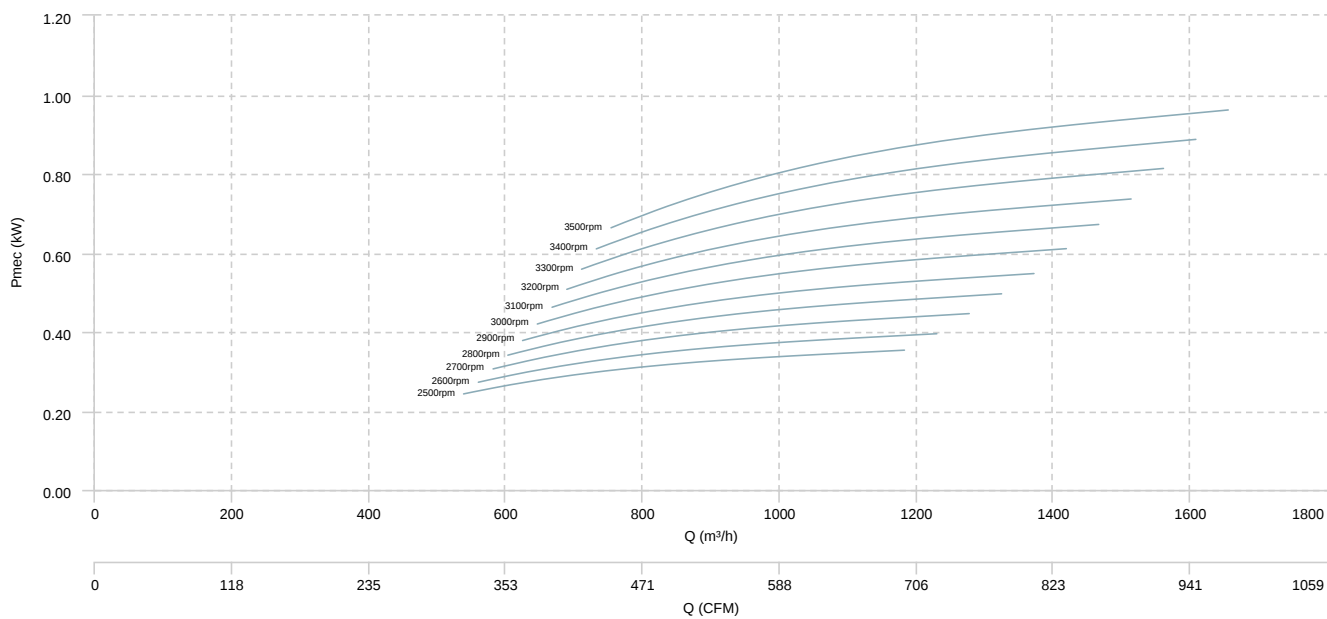


MTRU 280 ATEX

AIR FLOW - PRESSURE

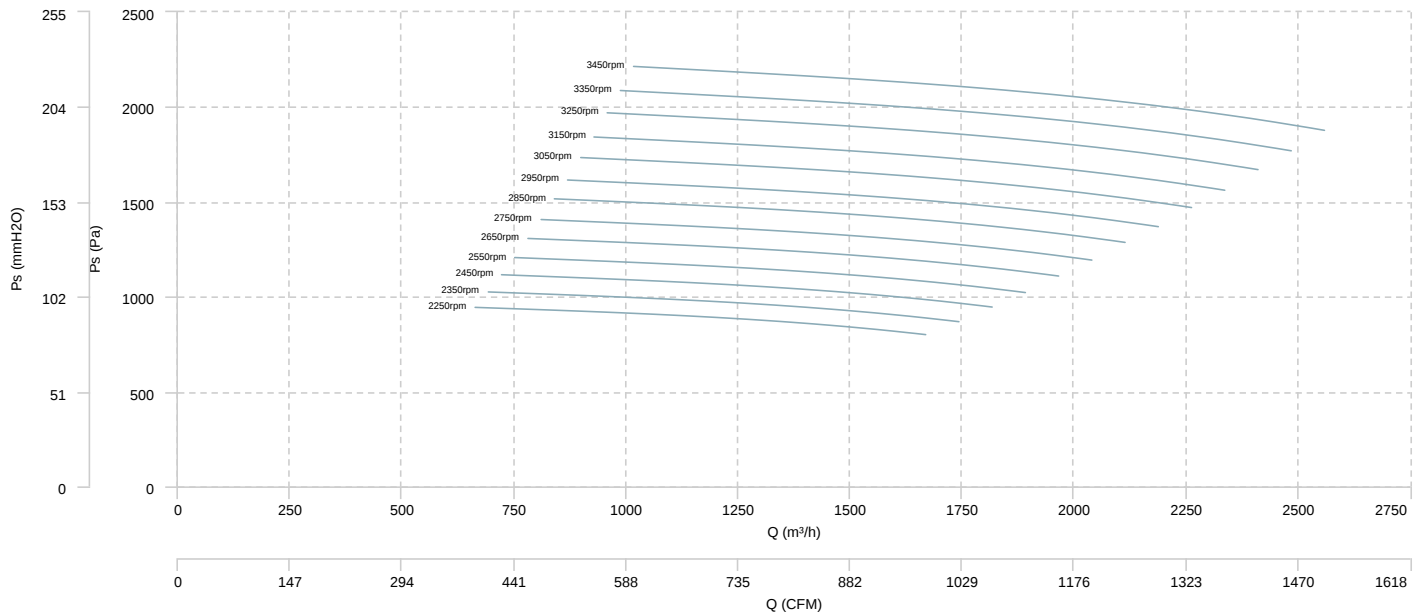


AIR FLOW - MECHANICAL POWER

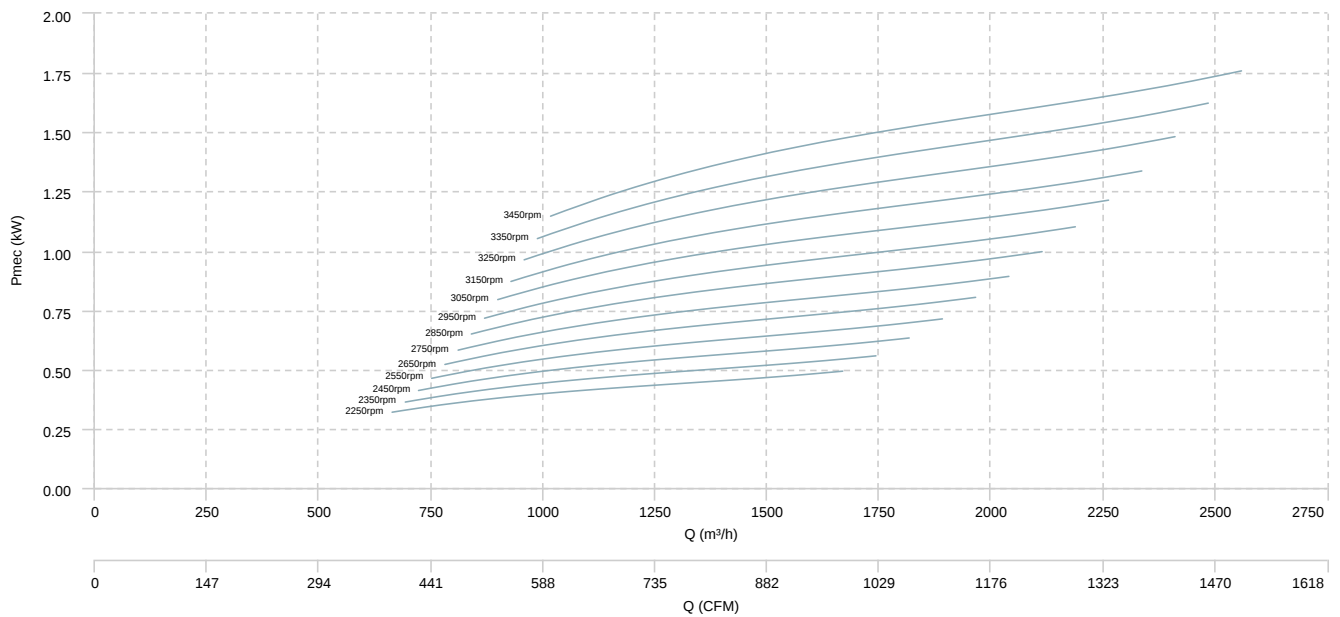


MTRU 310 ATEX

AIR FLOW - PRESSURE

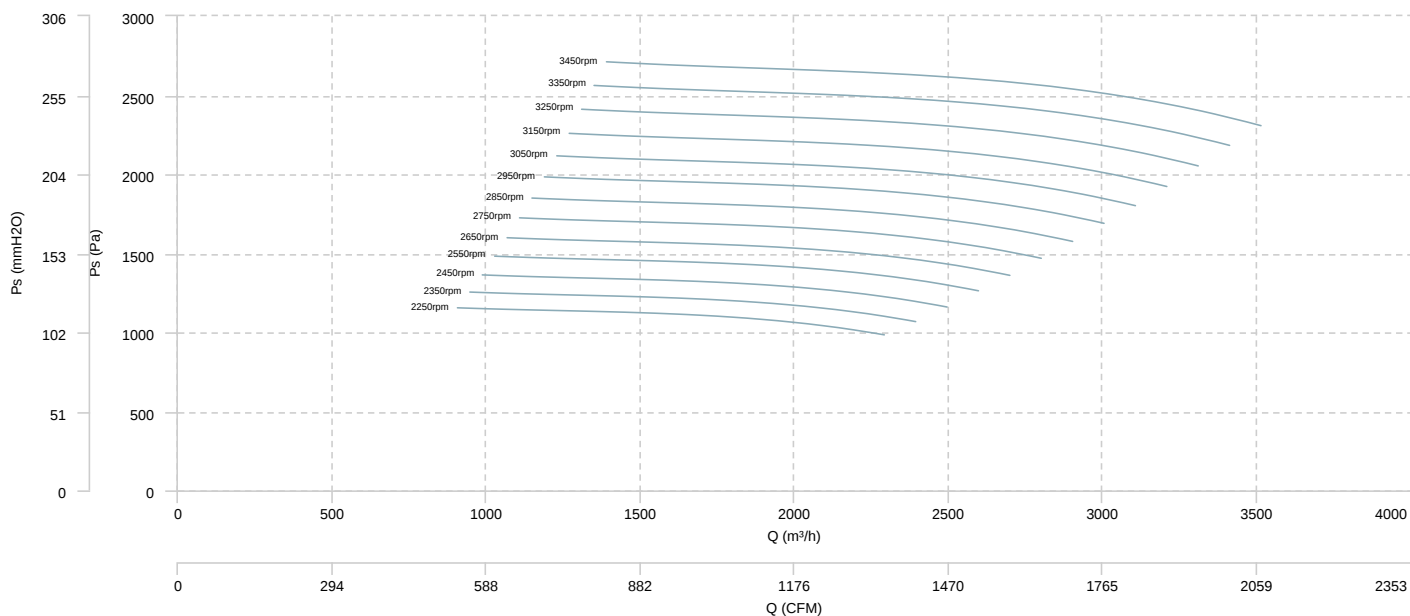


AIR FLOW - MECHANICAL POWER

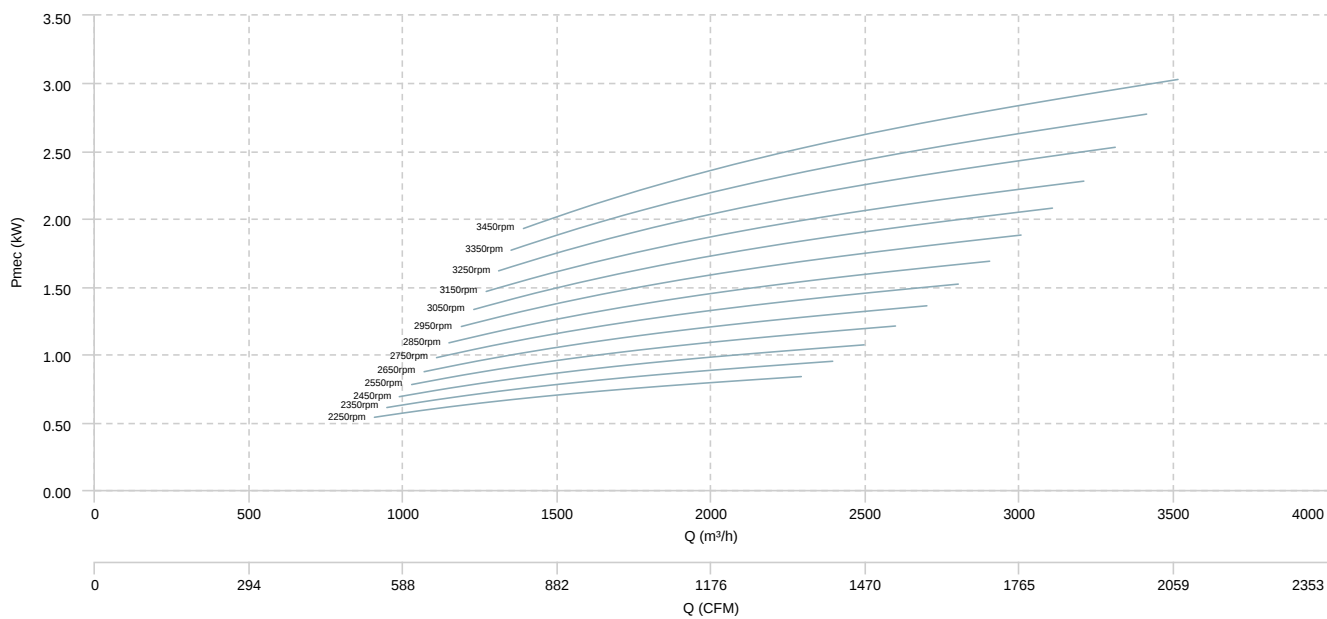


MTRU 350 ATEX

AIR FLOW - PRESSURE

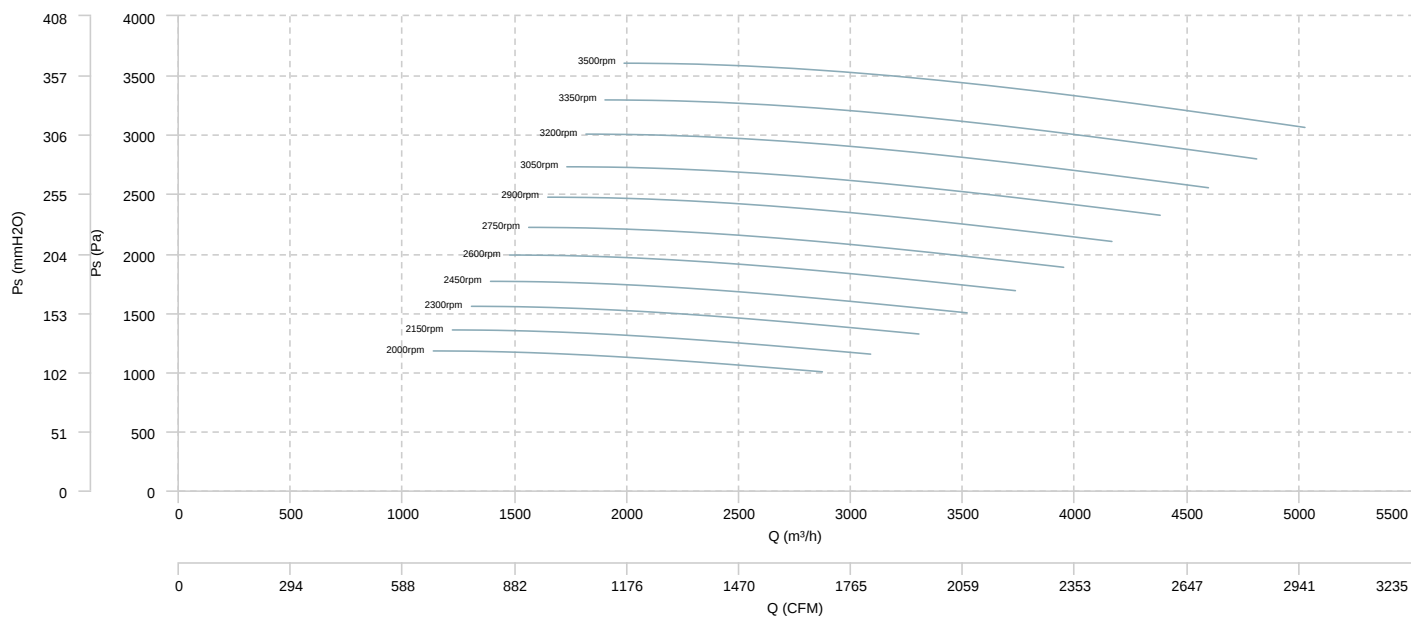


AIR FLOW - MECHANICAL POWER

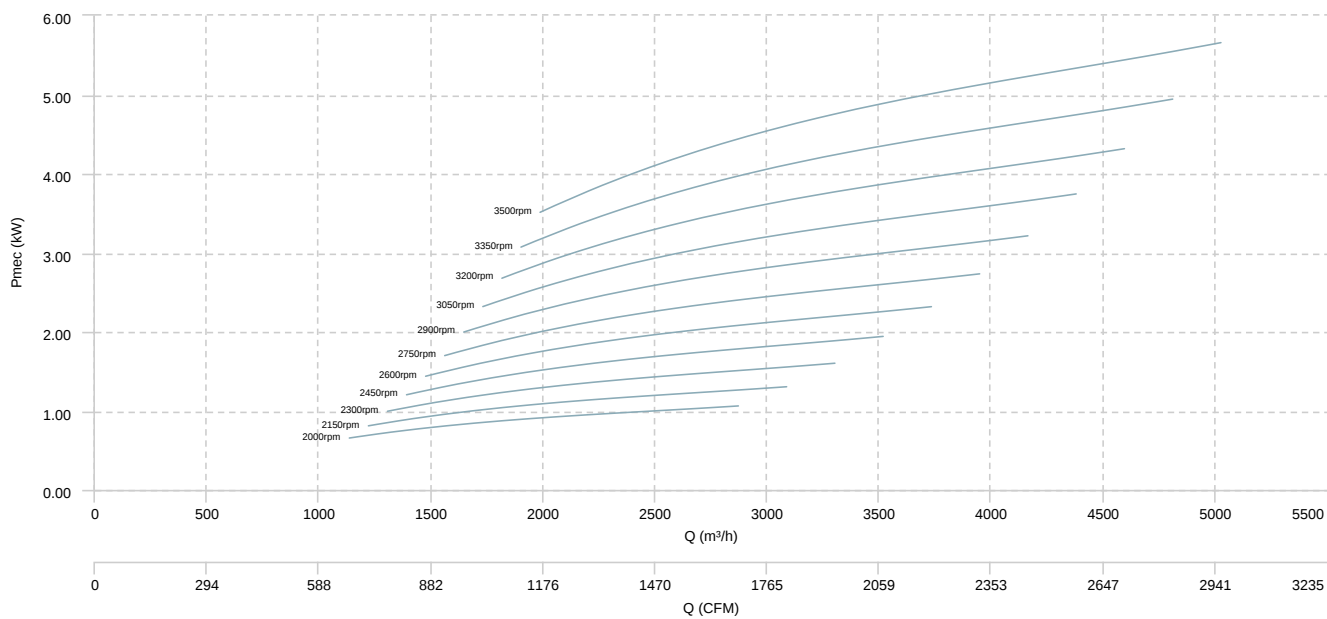


MTRU 400 ATEX

AIR FLOW - PRESSURE

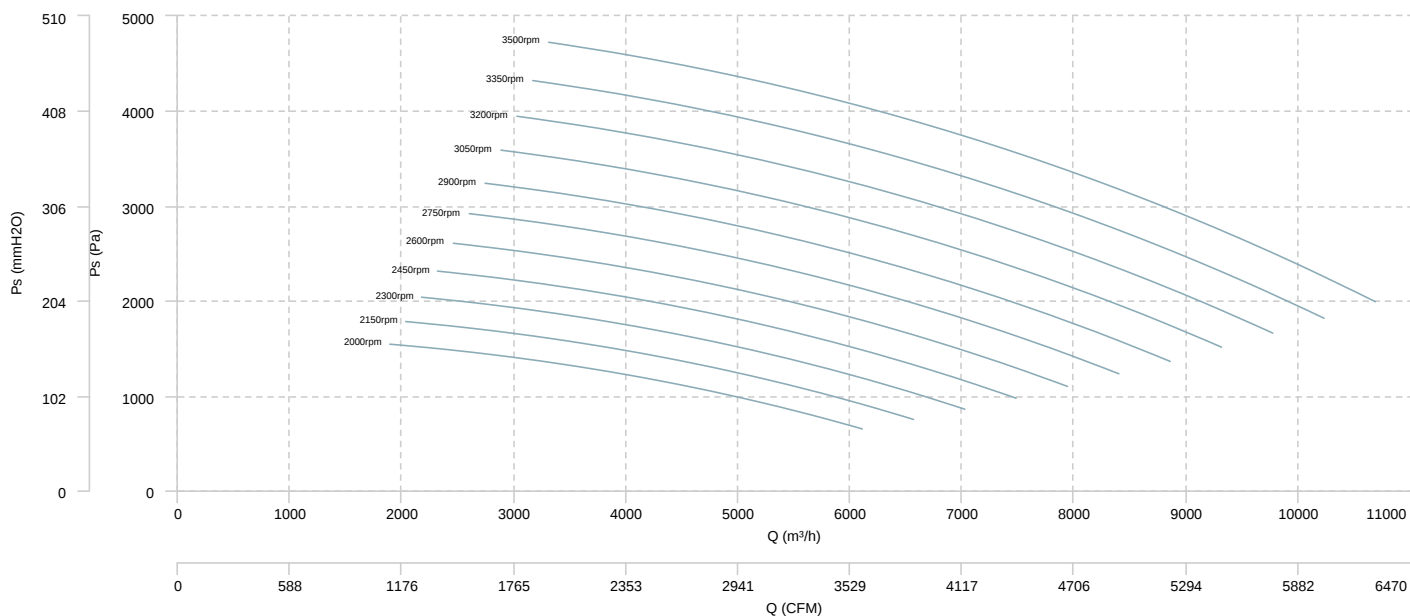


AIR FLOW - MECHANICAL POWER

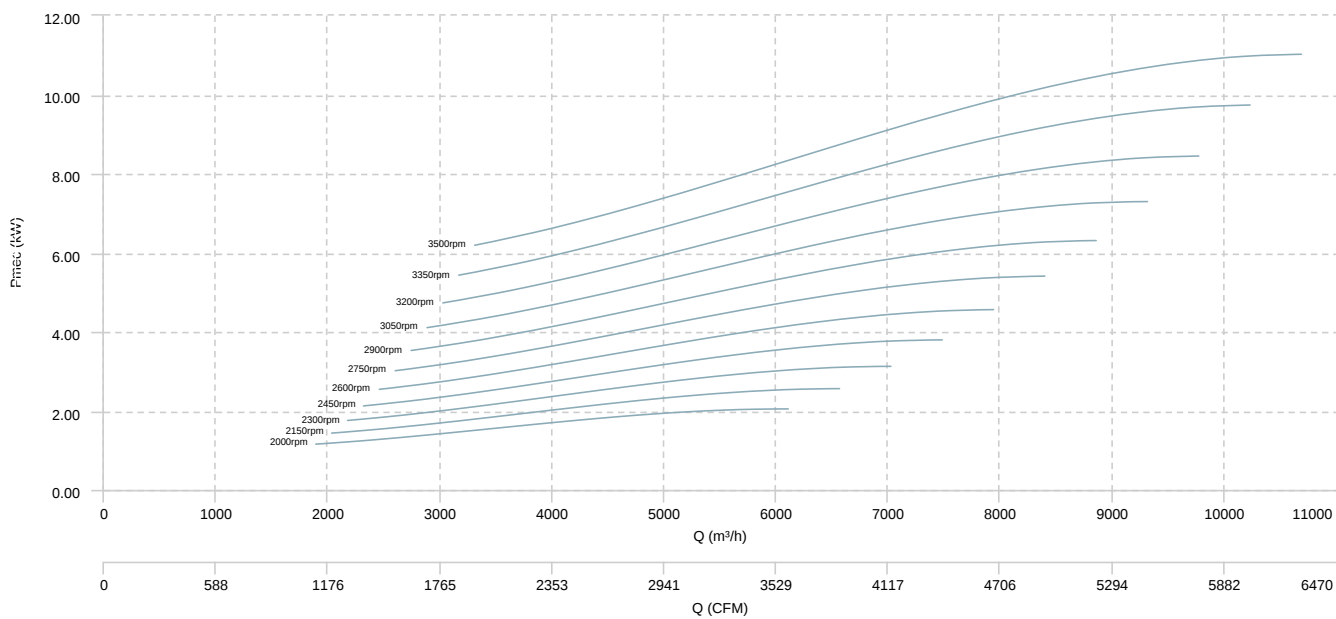


MTRU 450 ATEX

AIR FLOW - PRESSURE

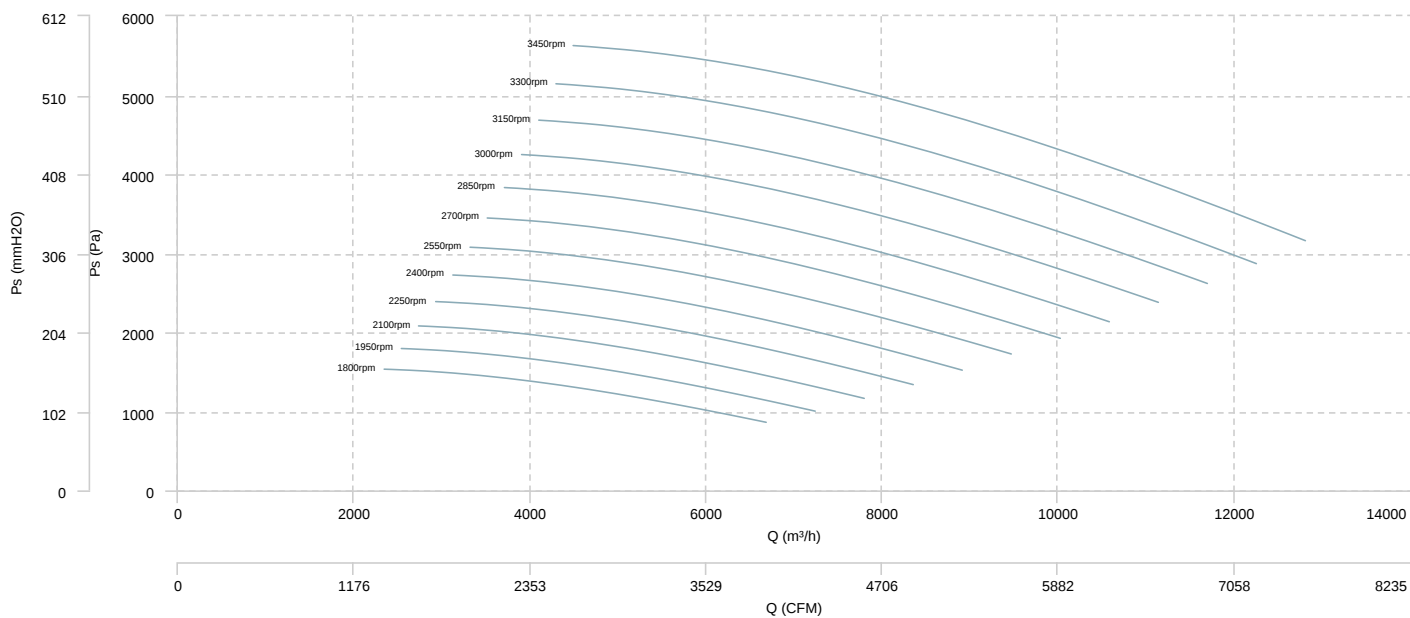


AIR FLOW - MECHANICAL POWER

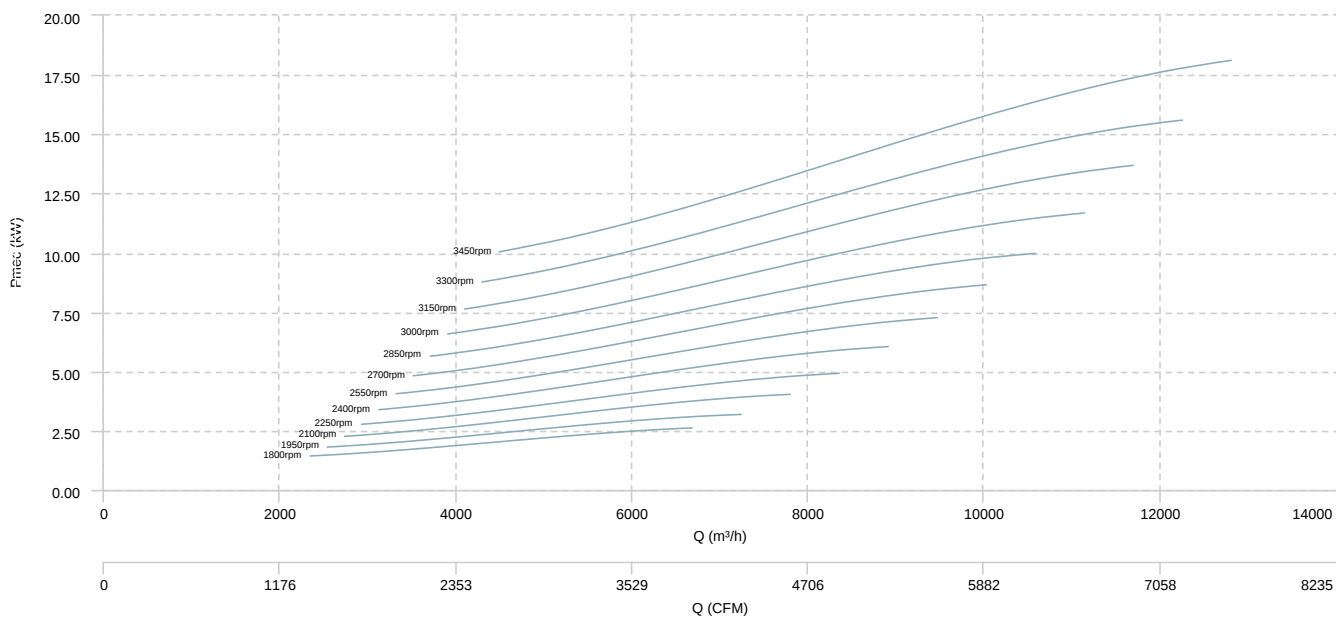


MTRU 500 ATEX

AIR FLOW - PRESSURE

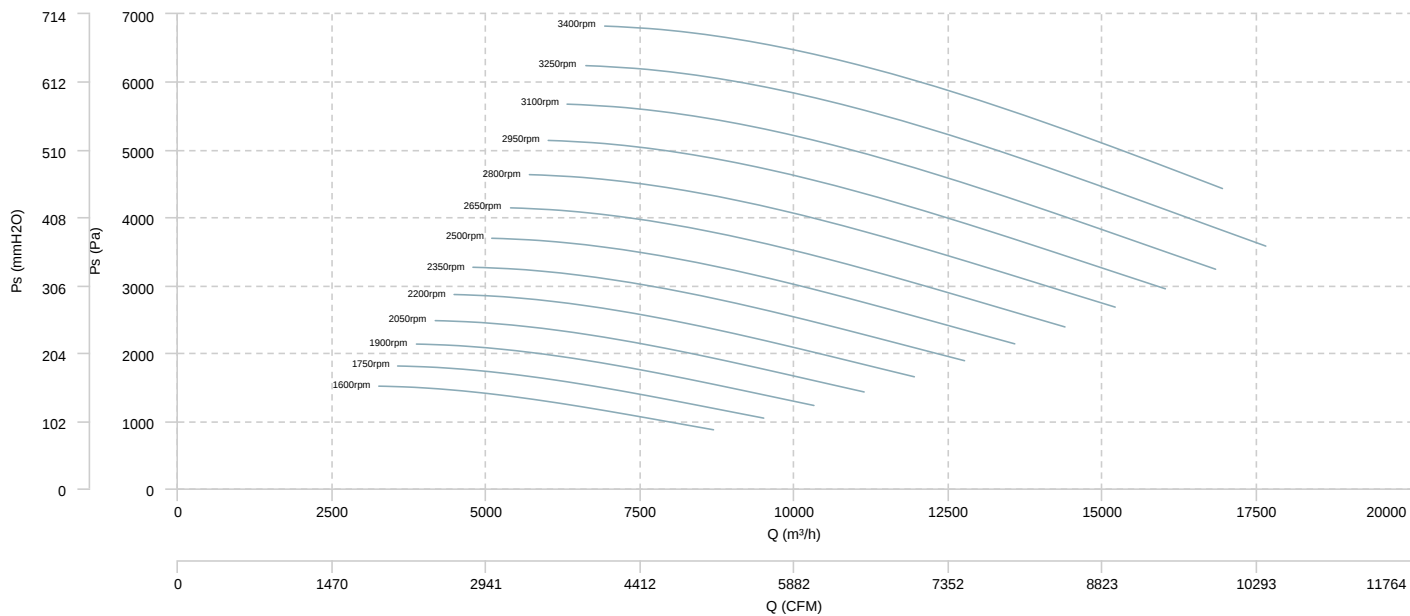


AIR FLOW - MECHANICAL POWER

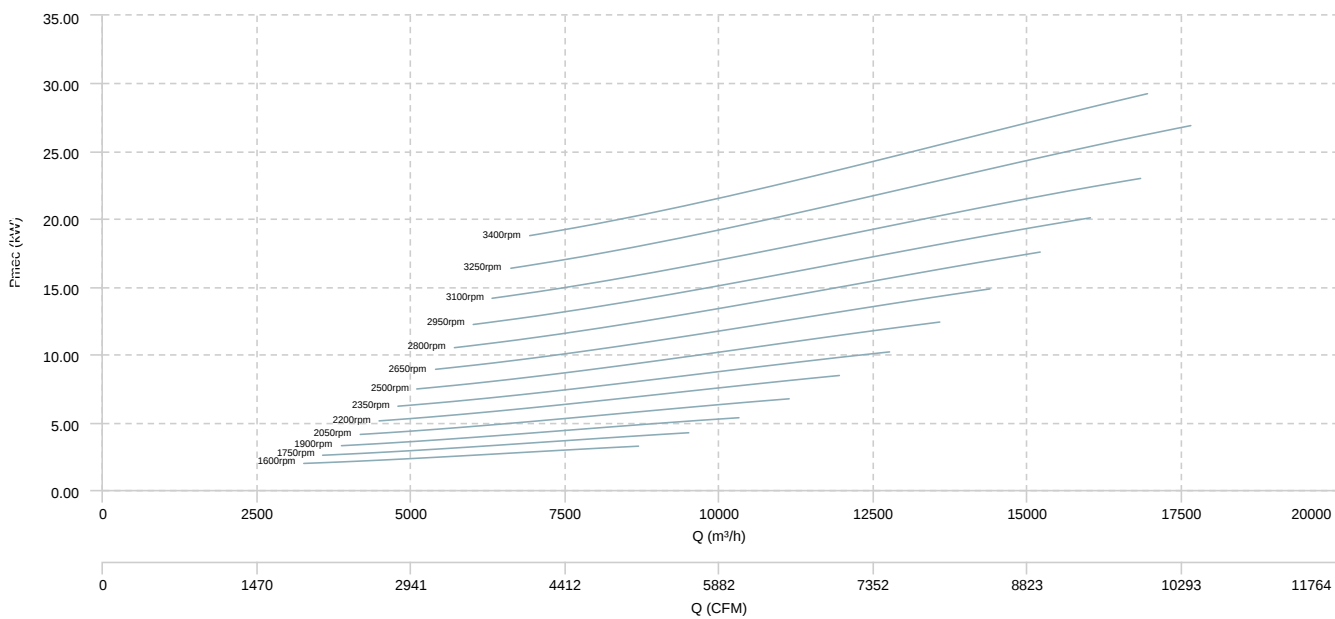


MTRU 560 ATEX

AIR FLOW - PRESSURE

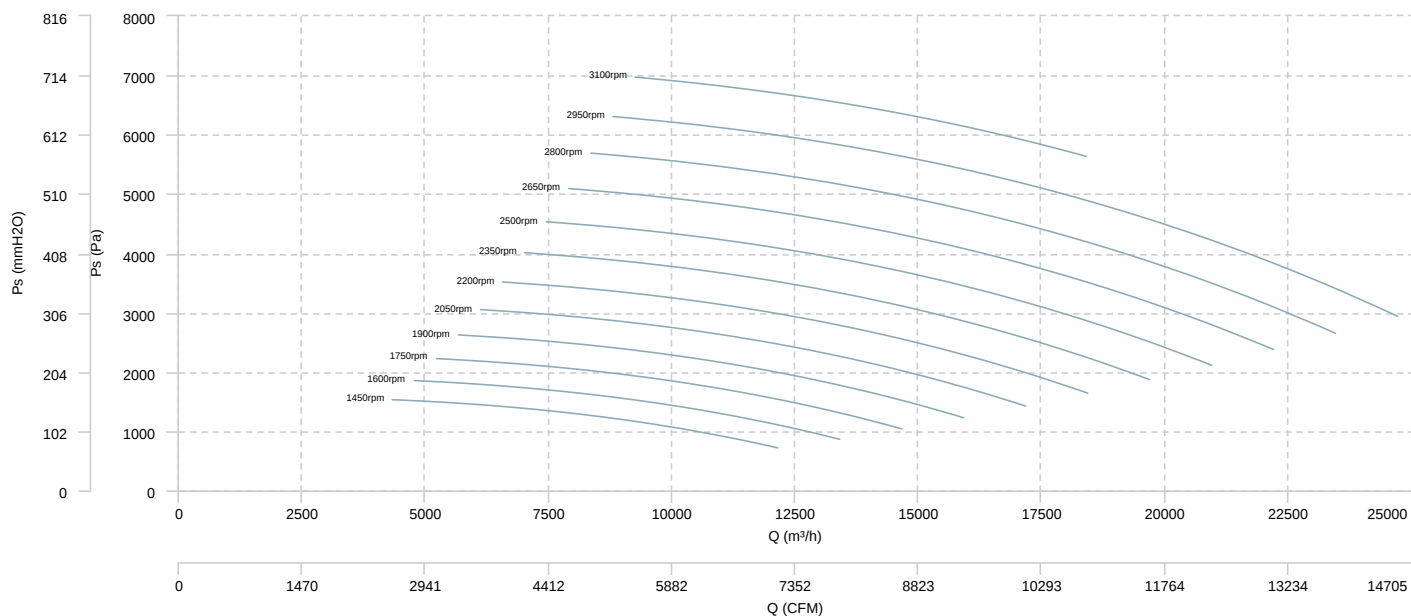


AIR FLOW - MECHANICAL POWER

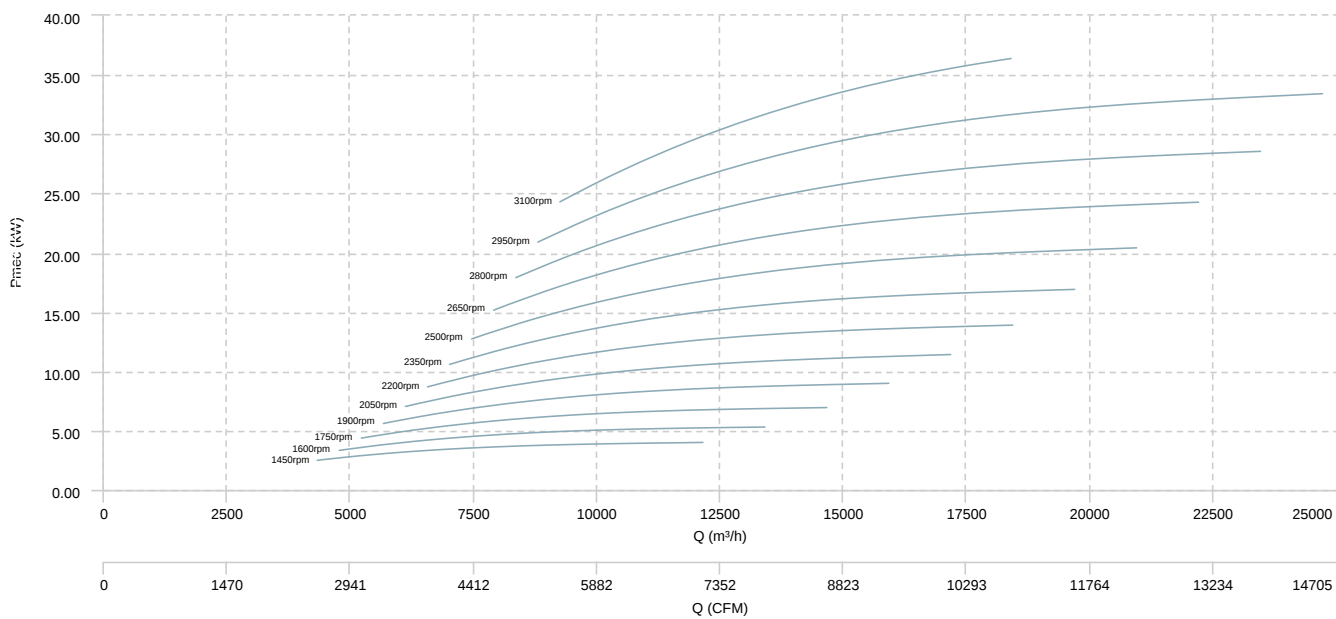


MTRU 630 ATEX

AIR FLOW - PRESSURE

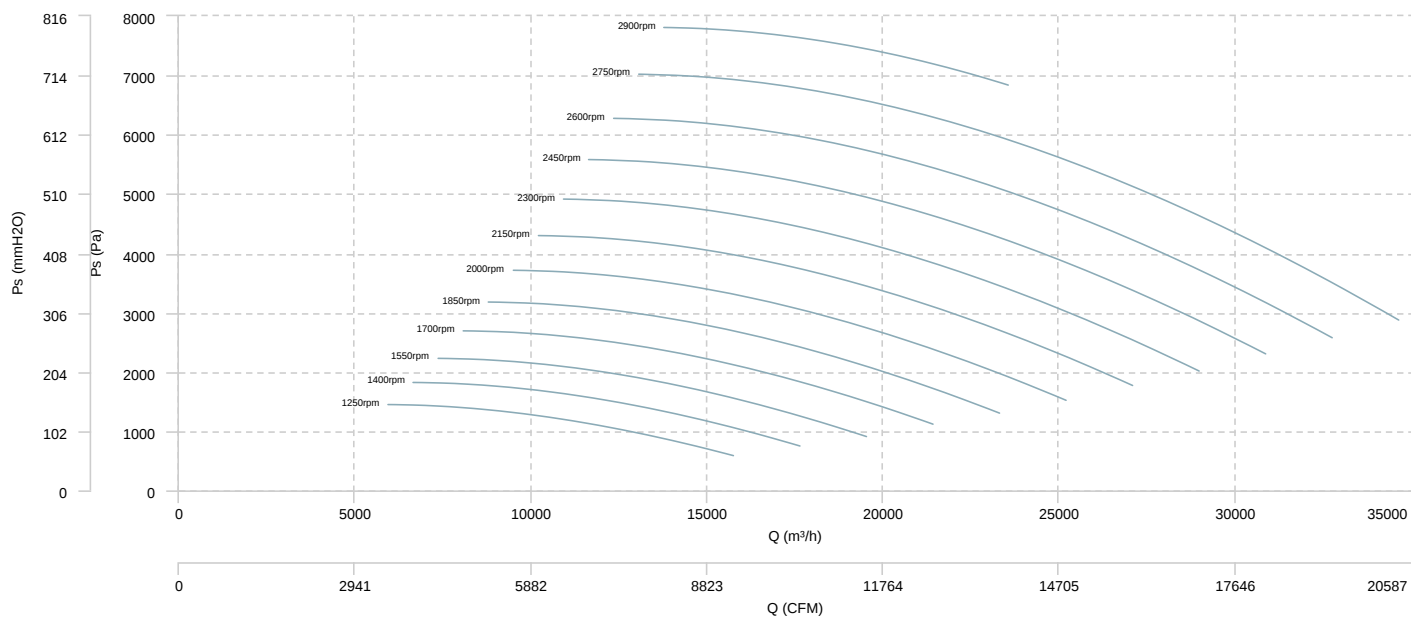


AIR FLOW - MECHANICAL POWER

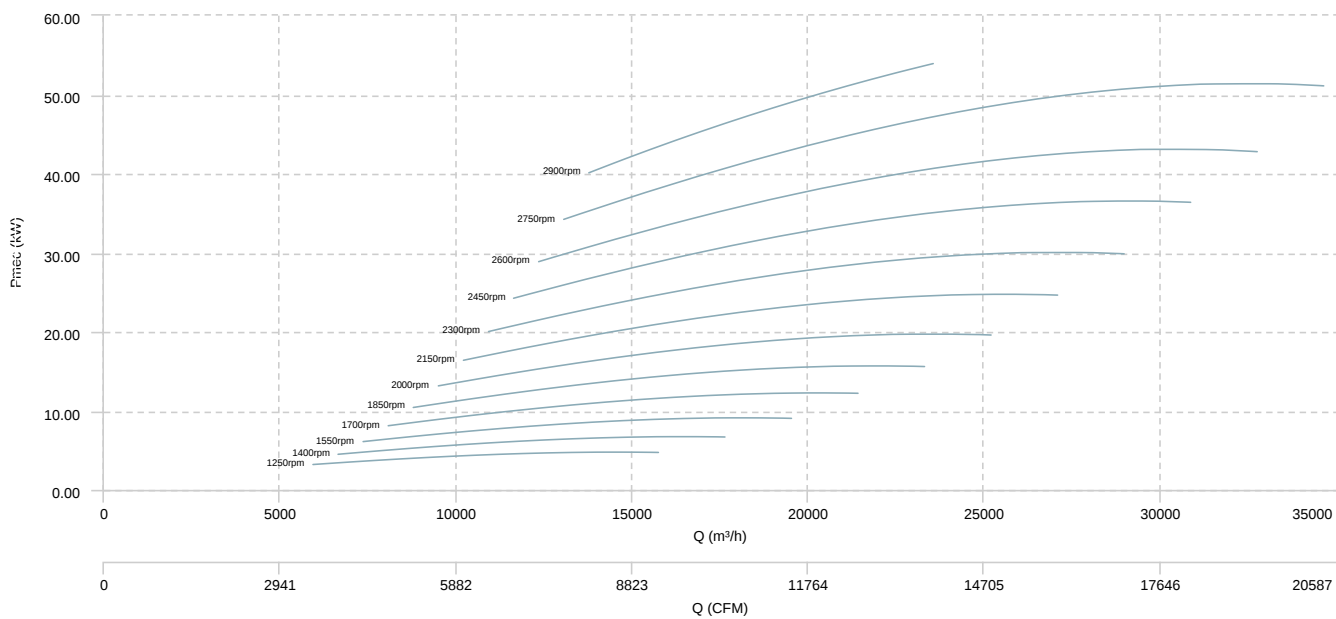


MTRU 710 ATEX

AIR FLOW - PRESSURE

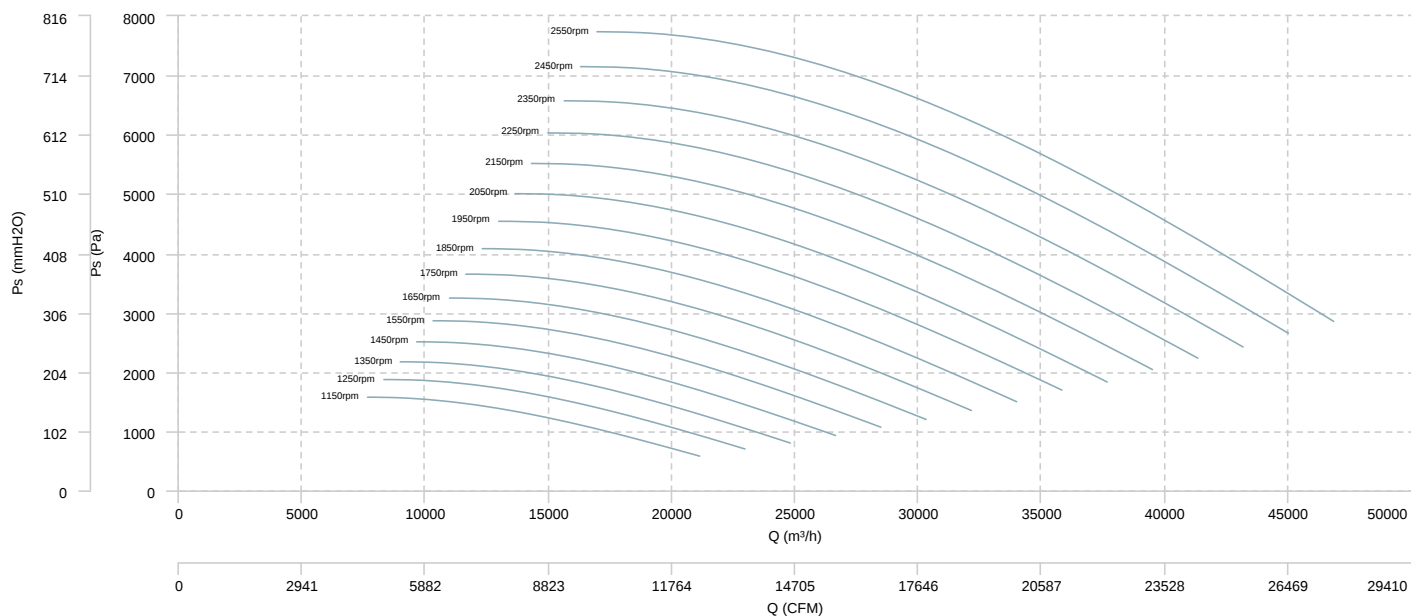


AIR FLOW - MECHANICAL POWER

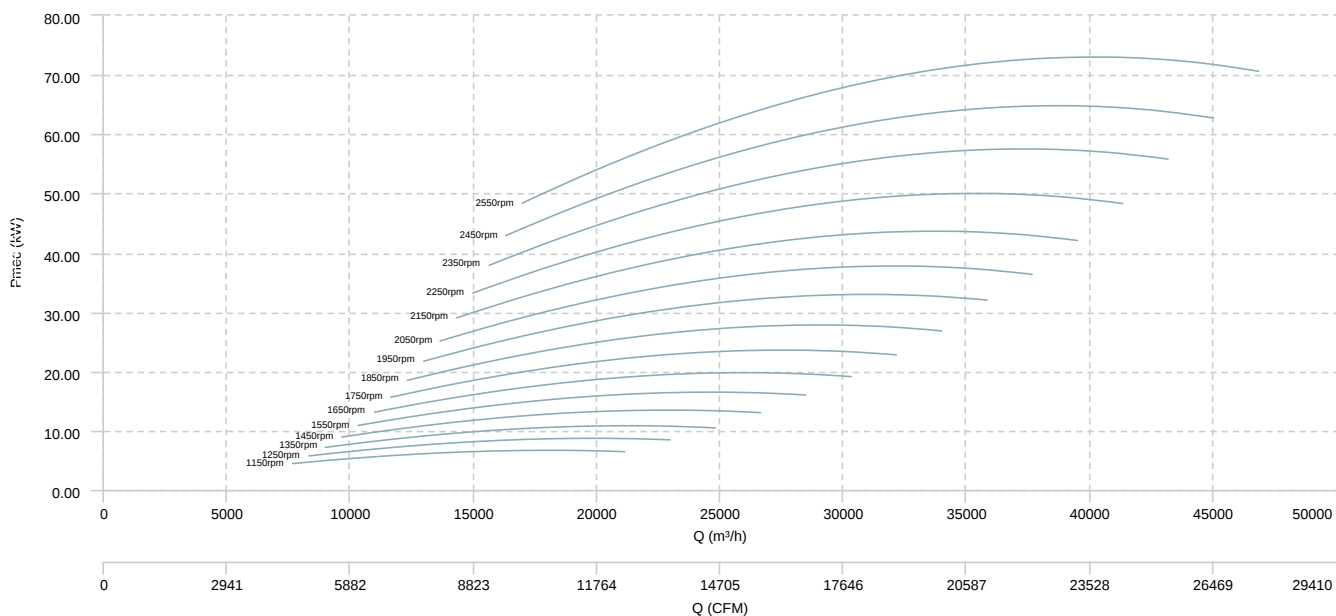


MTRU 800 ATEX

AIR FLOW - PRESSURE

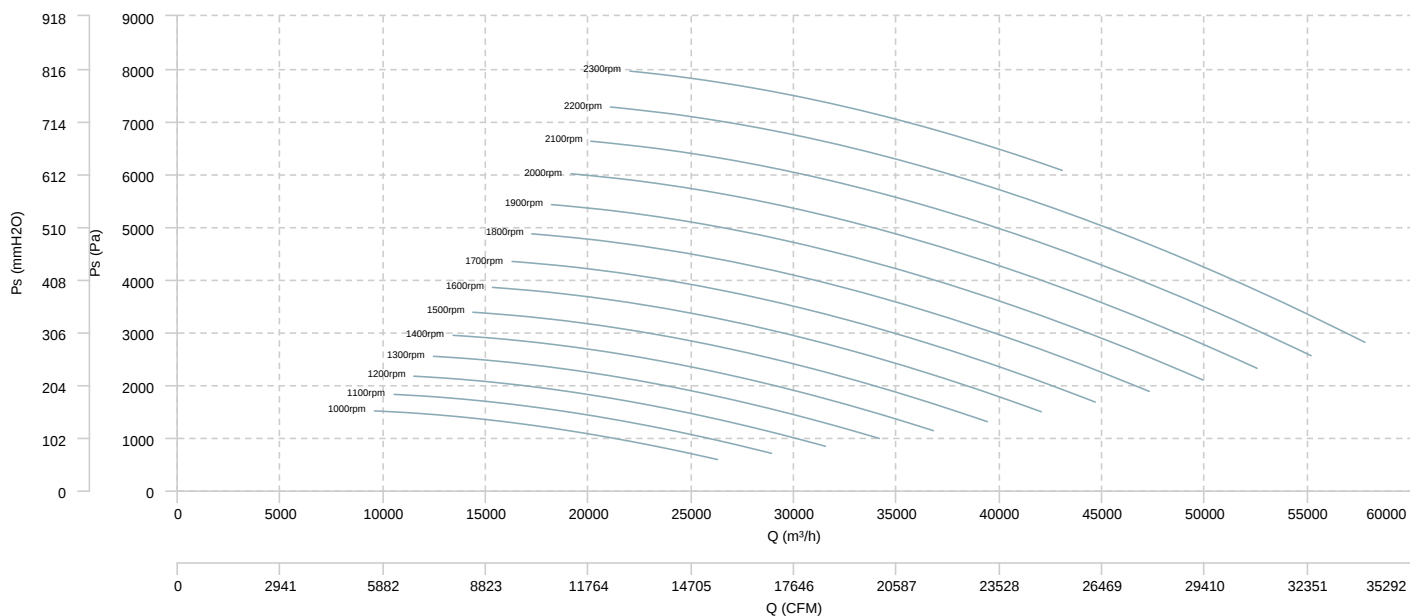


AIR FLOW - MECHANICAL POWER

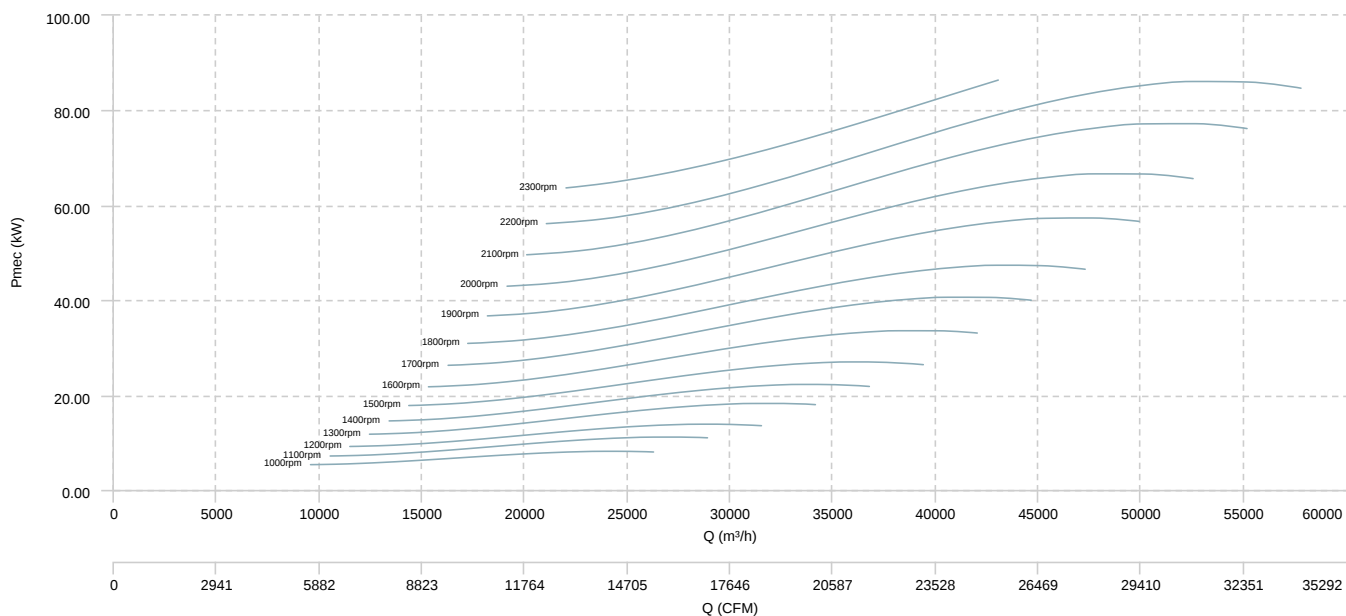


MTRU 900 ATEX

AIR FLOW - PRESSURE

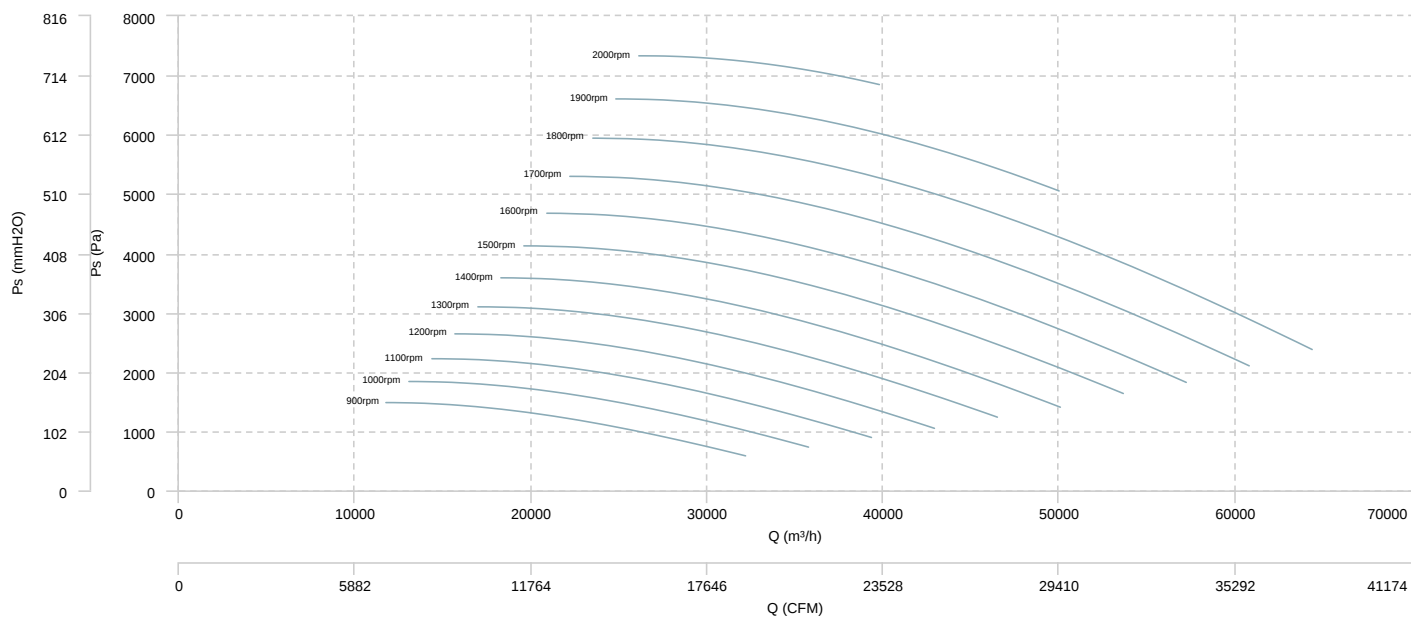


AIR FLOW - MECHANICAL POWER

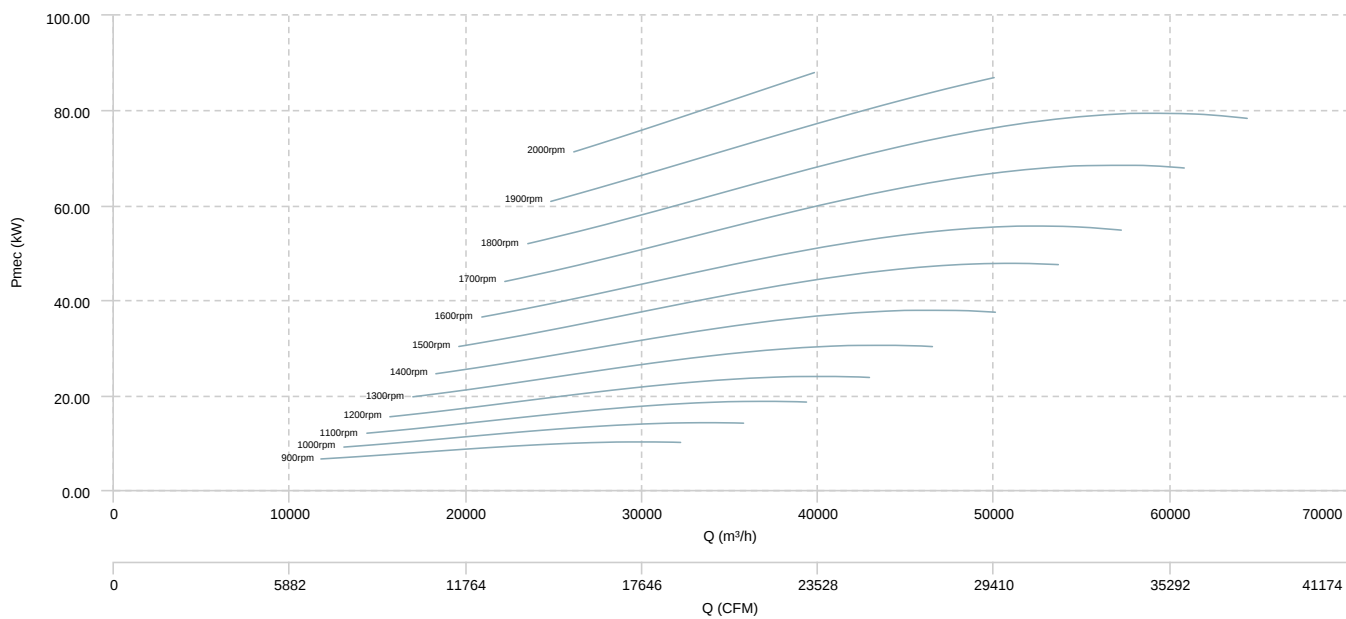


MTRU 1000 ATEX

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
MTRU 250 ATEX (2500rpm)	Inlet	44	56	62	66	67	63	56	53	72
MTRU 280 ATEX (2500rpm)	Inlet	47	59	65	69	70	66	59	56	74
MTRU 310 ATEX (2250rpm)	Inlet	45	57	64	68	69	64	58	55	73
MTRU 350 ATEX (2250rpm)	Inlet	48	60	66	70	71	67	60	57	75
MTRU 400 ATEX (2000rpm)	Inlet	48	60	66	70	71	67	60	57	75
MTRU 450 ATEX (2000rpm)	Inlet	56	68	74	79	79	75	68	65	84
MTRU 500 ATEX (1800rpm)	Inlet	55	67	73	77	78	74	67	64	82
MTRU 560 ATEX (1600rpm)	Inlet	54	66	72	76	77	72	66	63	81
MTRU 630 ATEX (1450rpm)	Inlet	56	68	75	79	80	75	69	66	84
MTRU 710 ATEX (1250rpm)	Inlet	52	64	70	75	75	71	64	61	80
MTRU 800 ATEX (1150rpm)	Inlet	56	68	74	78	79	75	68	65	83
MTRU 900 ATEX (1000rpm)	Inlet	56	68	75	79	80	75	69	66	84
MTRU 1000 ATEX (900rpm)	Inlet	55	67	74	78	79	74	67	64	83

Notes:

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

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