

MTRM

Different configurations of free shaft without motor or belt driven motor

Eje libre sin motor o motor a transmisión en diferentes configuraciones



MANUFACTURING FEATURES

- Rolling steel sheet housing, fully welded and protected against corrosion with polyester powder finishing coat.
- Forward models (MTCA) with galvanized sheet impeller, and backward models (rest of series) with sheet steel impeller protected against corrosion by polyester resin coating.
- The fan is supplied with free axle (sist.1), that is: without motor, pulleys or belts or with motor and transmission set (syst.9 and 12).
- For models with motor: standard squirrel cage asynchronous motor with IP-55 protection and class F insulation. Standard voltages 230/400V 50Hz for three-phase motors up to 4kW and 400/690V 50Hz for higher powers.
- Optional front support up to size 500, size 560 and upper front support is included.

APPLICATIONS

Designed for inline installation, they are suitable for:

- Industrial applications, air extraction or injection.
- Cooling of machines and parts.
- Clean air and pneumatic transport.
- Clean air or slightly dusty air transport (MTCA and MTRL).
- Transport of dusty air or with low load of granulated materials (MTRM y MTRU).
- Solid material transport and textile fibers (MTGR and MTZM P/R).

UNDER REQUEST

- Fans for special voltages.
- 2 speed motor.
- C4 or C5 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.
- Anticorrosive paint.
- Reinforced housing.
- Fully welded housing (waterproof).
- Welded impeller.
- Insulated housing.
- Split casing (for big sizes).
- Inspection door to facilitate maintenance and cleaning.
- Drain plug.
- Airtight shaft.
- Frontal foot.
- Double suction flange.
- Available in non-sparking air passage and standard motor.
- Other brands of motors.
- Orientation: RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315, LG0, LG45, LG90, LG135, LG180. LG225, LG315

This is a belt driven range, each model can be manufactured at different rpm, in case of order should be indicated the desired rpm for the correct operation of the unit and according to the needs.

CARACTERÍSTICAS CONSTRUCTIVAS

- Carcasa fabricada en chapa de acero laminado totalmente soldada y protegida contra la corrosión mediante recubrimiento en polvo de resina de poliéster.
- Turbina de chapa galvanizada para modelos a acción (MTCA) o de chapa de acero para los de reacción (resto de series) protegida contra la corrosión mediante recubrimiento de resina de poliéster.
- El ventilador se suministra a eje libre (sist.1), es decir: sin motor, poleas ni correas o con motor y conjunto de transmisión (sist.9 y 12).
- Para modelos con motor: motor asíncrono normalizado de jaula de ardilla con protección IP-55 y aislamiento clase F. Voltajes estándar 230/400V 50Hz para motores trifásicos hasta 4kW y 400/690V 50Hz para potencias superiores.
- Pie delantero opcional hasta tamaño 500, tamaño 560 y superiores pie delantero incluido.

APLICACIONES

Diseñados para instalación en conducto, son indicados para:

- Procesos industriales, extracción o inyección localizada.
- Refrigeración de máquinas, enfriamiento de piezas.
- Aire limpio y transporte neumático.
- Transporte de aire limpio o ligeramente polvoriento (MTCA y MTRL).
- Transporte de aire polvoriento o con ligera carga de materiales granulados (MTRM y MTRU).
- Transporte de materia sólida y fibra textil (MTGR y MTZM P/R).

BAJO DEMANDA

- Ventiladores para voltajes especiales.
- Motor 2 velocidades.
- Acabado pintura C4-C5.
- Galvanizado en caliente.
- Aceros especiales (Corten, Hardox...).
- Inox 304 (acabado normal o electropulido).
- Inox 316 (acabado normal o electropulido).
- Rodete de refrigeración.
- Pintura anticorrosiva.
- Carcasa reforzada.
- Carcasa totalmente soldada (estanca).
- Turbina con palas soldadas.
- Carcasa aislada.
- Carcasa partida (para tamaños grandes).
- Puerta inspección para facilitar el mantenimiento y la limpieza.
- Drenaje.
- Eje estanco.
- Pie frontal.
- Doble anillo aspiración.
- Disponibles con paso de aire antichispas y motor estándar.
- Otras marcas de motores.
- Orientación: RD0, RD45, RD90, RD135, RD180, RD225, RD270, RD315, LG0, LG45, LG90, LG135, LG180. LG225, LG315.

Esta gama es a transmisión, cada modelo se puede fabricar a distintas rpm, en caso de pedido se debe indicar las rpm a las que desea el equipo para que el modelo quede correctamente definido y sea adecuado a sus necesidades.

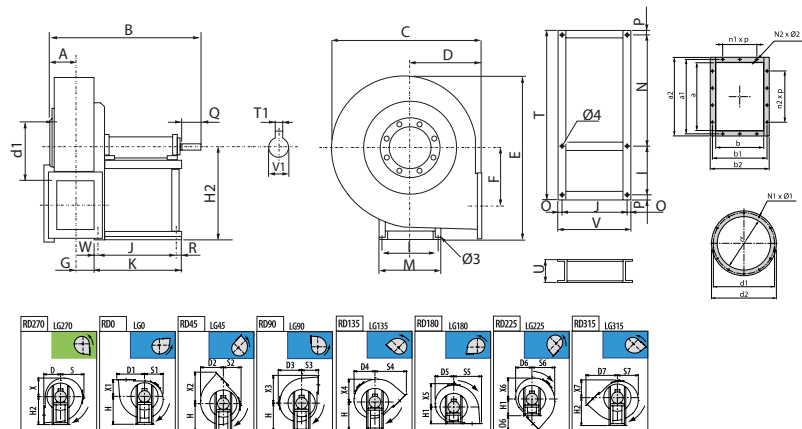
ACCESSORIES / accesorios

<p>INT Interruptor de corte Safety switch</p>	<p>SFC Variador de velocidad frecuencial Frequency speed controller</p>	<p>AVR Amortiguador antivibrátil de caucho Anti-vibration rubber block</p>	<p>AVS Amortiguador de muelles Spring anti-vibration block</p>
<p>BAD Brida de acoplamiento circular-circular. Circular-Circular coupling flange.</p>	<p>SIL-C Silenciador circular aspiración/impulsión inlet-outlet circular silencer</p>	<p>EI Embocadura impulsión Outlet flange</p>	<p>JE 45 Junta elástica Flexible joint</p>
<p>FS Pie soporte delantero para ventiladores de media y alta presión Front support for medium and high pressure fans</p>	<p>BA-400 Brida antivibratoria 400°/2h. Anti-vibrating flange 400°/2h.</p>	<p>AC Brida conexión Connection flange</p>	<p>AB Cabinas acústicas para ventiladores centrífugos Casals Acoustic cabins for Casals centrifugal fans</p>
<p>RA Rejilla aspiración Inlet protection guard</p>	<p>RI Reja impulsión Outlet guard</p>		

BELT DRIVEN / transmisión

Code	Model	R.P.M. min	R.P.M. max	Rated Power kW	Air flow m³/h	Sound dB (A)	Weight Kg	Connection diagram
5044022_R	MTRM 220	2.850	3.500	1,1	1.000	50	(s.1) 20	1
5044025_R	MTRM 250	2.250	3.500	1,5	1.560	55	(s.1) 25	1
5044028_R	MTRM 280	2.250	3.500	2,2	2.180	58	(s.1) 40	1
5044031_R	MTRM 310	2.250	3.500	4	3.080	61	(s.1) 20	1
5044035_R	MTRM 350	2.000	3.500	4	4.200	64	(s.1) 75	1
5044040_R	MTRM 400	1.800	3.500	5,5	7.160	67	(s.1) 86	1
5044045_R	MTRM 450	1.600	3.500	9	8.910	70	(s.1) 98	1
5044050_R	MTRM 500	1.450	3.400	11	13.020	73	(s.1) 115	1
5044056_R	MTRM 560	1.250	3.300	18,5	17.970	76	(s.1) 194	1
5044063_R	MTRM 630	1.150	2.500	22	19.170	74	(s.1) 229	1
5044071_R	MTRM 710	950	2.250	22	23.350	75	(s.1) 346	1
5044080_R	MTRM 800	900	2.000	37	32.510	75	(s.1) 421	1
5044090_R	MTRM 900	800	1.800	45	40.570	76	(s.1) 517	1
5044100_R	MTRM 1000	750	1.600	55	51.350	76	(s.1) 746	1
5044112_R	MTRM 1120	650	1.450	75	65.040	77	(s.1) 1.040	1
5044125_R	MTRM 1250	600	1.250	75	78.580	76	(s.1) 1.195	1
5044140_R	MTRM 1400	500	1.100	90	96.310	76	(s.1) 1.696	1
5044160_R	MTRM 1600	450	950	132	130.260	77	(s.1) 2.100	1
5044180_R	MTRM 1800	400	900	160	156.000	78	(s.1) 2.740	1
5044200_R	MTRM 2000	400	800	200	199.620	80	(s.1) 3.630	1

DIMENSIONS / dimensiones



MODEL	Ø 3	Ø 4	A	B	C	D	D1	D2	D3	D4	D5	D6	D7	E	F	G	H	H1
MTRM 220	10	12	59	455	391	165	232	200	226	190	175	190	280	475	150	55	255	165
MTRM 250	10	12	86	496	471	195	314	255	276	235	212	215	360	527	175	77	315	195

Ventiladores centrífugos de media presión / a transmisión



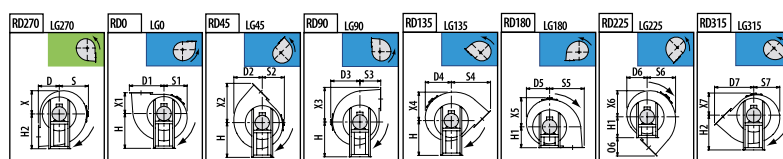
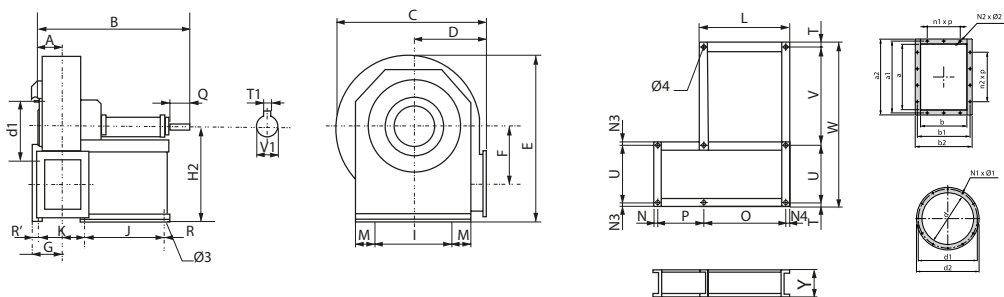
MODEL	Ø3	Ø4	A	B	C	D	D1	D2	D3	D4	D5	D6	D7	E	F	G	H	H1
MTRM 280	12	15	95	592	505	200	353	287	305	262	231	226	391	606	202	86	375	200
MTRM 310	12	15	115	783	630	255	393	316	332	288	256	253	437	738	253	106	400	225
MTRM 350	14	15	127	820	685	285	437	359	375	325	288	278	489	811	286	118	450	255
MTRM 400	14	15	127	820	685	285	487	387	400	353	311	306	546	811	286	118	500	285
MTRM 450	14	15	141	847	765	320	542	435	445	398	354	342	609	914	321	132	560	320
MTRM 500	17	18	157	985	862	360	597	490	502	450	400	380	677	1000	355	148	600	360

MODEL	H2	I	J	K	M	N1x Ø1	N2x Ø2	O	O6	P	Q	R	S	S1	S2	S3	S4	S5
MTRM 220	300	228	210	288	255	4x4	4x8	17	115	13,5	40	17	226	175	190	165	280	232
MTRM 250	315	228	210	282	255	8x8	8x12	17	165	13,5	40	17	276	212	215	195	360	314
MTRM 280	375	288	284	347	324	8x8	8x12	23	191	18	50	23	305	231	226	200	391	353
MTRM 310	450	355	407	485	400	8x10	10x12	23	212	18	60	28	332	256	253	225	437	393
MTRM 350	500	355	407	485	400	8x12	10x12	28	234	22,5	80	28	375	288	278	255	489	437
MTRM 400	500	355	407	485	400	8x12	10x12	28	261	22,5	80	28	400	311	306	285	543	487
MTRM 450	560	355	407	485	400	8x12	10x12	28	289	22,5	80	28	445	354	342	320	609	542
MTRM 500	600	364	477	560	418	8x12	14x12	33	317	27	110	33	502	400	380	360	676	597

MODEL	H2	I	J	K	M	N1x Ø1	N2x Ø2	O	O6	P	Q	R	S	S1	S2	S3	S4	S5
MTRM 400	500	355	407	485	400	8x12	10x12	28	261	22,5	80	28	400	311	306	285	543	487
MTRM 450	560	355	407	485	400	8x12	10x12	28	289	22,5	80	28	445	354	342	320	609	542
MTRM 500	600	364	477	560	418	8x12	14x12	33	317	27	110	33	502	400	380	360	676	597

MODEL	S6	S7	T	T1	U	V	V1	W	X	X1	X2	X3	X4	X5	X6	X7	a	a1
MTRM 220	200	190	6	6	80	19	19	61	175	165	280	232	200	226	190	190	124	145
MTRM 250	255	235	6	6	80	19	19	55	212	195	360	314	255	276	235	215	207	241
MTRM 280	287	262	8	8	100	24	24	40	231	200	391	353	287	305	262	226	231	265
MTRM 310	316	288	8	8	100	28	24	40	256	225	437	393	316	332	288	253	288	332
MTRM 350	359	325	10	8	120	38	28	50	288	255	489	437	359	375	325	278	322	366
MTRM 400	387	353	10	10	120	38	38	50	311	285	543	487	387	400	353	306	322	366
MTRM 450	435	398	10	10	120	38	38	50	354	320	609	542	435	445	398	342	361	405
MTRM 500	490	450	12	12	140	42	42	50	400	360	677	597	490	502	450	380	404	448

MODEL	a2	b	b1	b2	d	d1	d2	n1xp	n2xp
MTRM 220	164	103	125	143	130	165	190	-	-
MTRM 250	277	148	182	218	185	219	250	1x112	1x112
MTRM 280	301	166	200	236	205	241	275	1x112	1x112
MTRM 310	368	205	249	285	255	292	325	1x125	2x125
MTRM 350	402	229	273	309	285	332	365	1x125	2x125
MTRM 400	402	229	273	309	285	332	365	1x125	2x125
MTRM 450	441	256	300	336	320	366	400	1x125	2x125
MTRM 500	484	288	332	368	360	405	440	2x125	3x125



MODEL	Ø3	Ø4	A	B	C	D	D1	D2	D3	D4	D5	D6	D7	E	F	G	H	H1
MTRM 560	17	18	177	1058	970	400	657	555	570	542	485	425	747	1155	390	214	670	400
MTRM 630	17	18	195	1102	1080	450	733	619	630	603	550	476	836	439	1300	234	750	450

MODEL	H2	I	J	K	L	M	N	N1x Ø1	N2x Ø2	N3	N4	O	O6	P	Q	R	S	S1
MTRM 560	670	632	477	943	543	30	23	12x12	14x12	30	33	477	347	410	110	33	570	485
MTRM 630	750	702	477	983	543	30	23	12x12	14x12	30	33	477	386	450	110	33	630	550

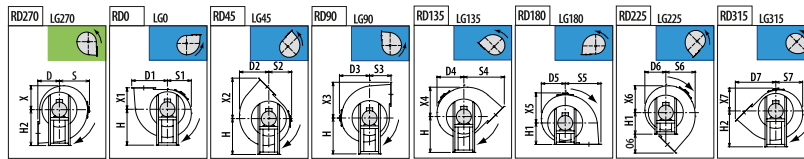
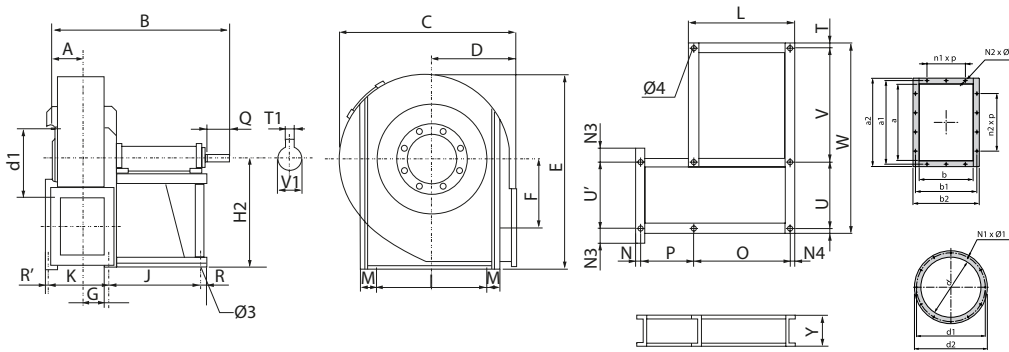
CENTRIFUGAL MEDIUM PRESSURE FANS / BELT DRIVEN

Ventiladores centrífugos de media presión / a transmisión



MODEL	S2	S3	S4	S5	S6	S7	T	U	V	W	X	X1	X2	X3	X4	X5	X6	X7
MTRM 560	425	400	747	667	555	542	14	632	678	1370	30	400	747	657	555	570	542	425
MTRM 630	476	450	836	733	619	603	14	702	708	1470	30	450	836	733	619	630	603	476

MODEL	Y	a	a1	a2	b	b1	b2	d	d1	d2	n1xp	n2xp
MTRM 560	160	453	497	533	361	405	441	405	448	485	2x125	3x125
MTRM 630	160	507	551	587	361	405	441	455	497	535	2x125	3x125



MODEL	Ø3	Ø4	A	B	C	D	D1	D2	D3	D4	D5	D6	D7	E	F	G	H	H1
MTRM 710	19	20	216	1241	1190	500	835	719	690	662	565	497	944	1415	500	262	670	500
MTRM 800	19	20	241	1306	1342	560	929	811	782	749	641	562	1053	1591	560	307	755	560
MTRM 900	19	20	275	1360	1500	630	1038	905	870	835	721	633	1180	1781	630	334	850	630
MTRM 1000	19	20	308	1565	1686	710	1171	1015	976	936	814	718	1330	1994	710	385	950	710
MTRM 1120	24	25	350	1780	1884	800	1309	1133	1084	1037	932	793	1491	2252	800	419	1060	800
MTRM 1250	24	25	388	1855	2114	900	1464	1270	1214	1163	1048	898	1671	2548	900	458	1190	900
MTRM 1400	24	25	442	2050	2325	1000	1635	1395	1325	1272	1145	990	1863	2845	1000	531	1320	1000
MTRM 1600	28	30	490	2358	2620	1120	1824	1572	1500	1434	1276	1085	2081	3176	1120	579	1500	1120
MTRM 1800	28	30	654	2525	2960	1250	2025	1790	1710	1610	1471	1300	2312	3591	1244	634	1650	1250
MTRM 2000	28	30	715	2645	3290	1400	2271	1970	1890	1811	1635	1455	2595	3995	1394	715	1850	1400

MODEL	H2	I	J	K	L	M	N	N1xØ1	N2xØ2	N3	N4	O	O6	P	Q	R	R'	S
MTRM 710	670	772	551	497	629	71	27	12x14	14x14	71	39	551	444	497	110	39	27	690
MTRM 800	755	862	551	546	629	91	39	12x14	14x14	91	39	551	493	546	110	39	47	782
MTRM 900	850	962	551	600	629	91	39	12x14	16x14	91	39	551	550	600	110	39	47	870
MTRM 1000	950	1056	607	657	697	99	67	16x14	14x14	99	45	657	620	607	140	45	67	976
MTRM 1120	1060	1178	760	763	850	111	55	16x14	18x14	111	45	760	691	763	140	45	55	1084
MTRM 1250	1190	1310	760	840	850	110	55	16x14	18x14	110	45	760	771	840	140	45	55	1214
MTRM 1400	1320	1450	780	946	890	120	85	24x14	20x18	120	55	780	863	946	170	55	85	1325
MTRM 1600	1500	1640	917	1073	1047	120	75	24x14	24x18	120	65	917	961	1073	210	65	75	1500
MTRM 1800	1650	1830	917	1193	1047	130	65	24x17	24x18	130	65	917	1062	1193	210	65	65	1710
MTRM 2000	1850	2030	917	1315	1047	170	85	32x17	28x22	170	65	917	1195	1315	210	65	85	1890

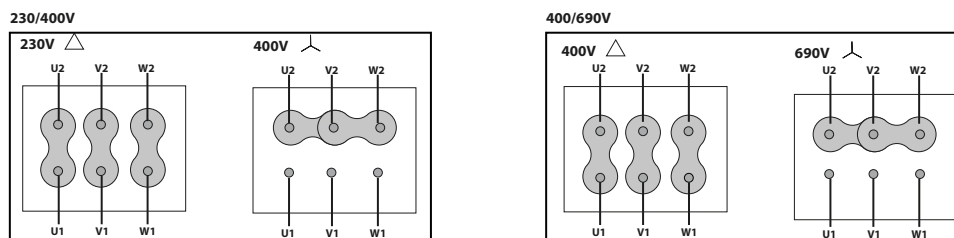


MODEL	S1	S2	S3	S4	S5	S6	S7	T	U	U'	V	V1	W	X	X	X2	X3	X4
MTRM 710	565	497	500	944	835	719	662	14	772	772	807	48	1633	71	500	944	835	719
MTRM 800	641	562	560	1053	929	811	749	32	862	862	842	55	1768	91	560	1053	929	811
MTRM 900	721	633	630	1180	1038	905	835	32	962	962	987	55	2013	91	630	1180	1038	905
MTRM 1000	814	718	710	1330	1171	1015	936	18	1056	1056	1036	65	2164	99	710	1330	1171	1015
MTRM 1120	932	793	800	1491	1309	1133	1037	20	1178	1178	1066	75	2334	111	800	1491	1309	1133
MTRM 1250	1048	898	900	1671	1464	1270	1163	20	1310	1310	1230	75	2630	110	900	1671	1464	1270
MTRM 1400	1145	990	1000	1863	1635	1395	1272	22	1450	1450	1240	80	2800	120	1000	1863	1635	1395
MTRM 1600	1276	1085	1120	2081	1824	1572	1434	25	1640	1640	1205	90	2965	120	1120	2081	1824	1572
MTRM 1800	1471	1300	1250	2312	2025	1790	1610	28	1830	1830	1385	100	3335	130	1250	2312	2025	1790
MTRM 2000	1635	1455	1400	2595	2271	1970	1811	28	2030	1830	1350	100	3500	170	1400	2595	2271	1970

MODEL	X5	X6	X7	Y	a	a1	a2	b	b1	b2	d	d1	d2	n1xp	n2xp
MTRM 710	690	662	497	180	569	629	669	404	464	504	505	551	585	2x160	3x160
MTRM 800	782	749	562	180	638	698	738	453	513	553	565	629	665	2x160	3x160
MTRM 900	870	835	633	180	715	775	815	507	567	607	635	698	735	2x160	4x160
MTRM 1000	976	936	718	200	801	871	921	569	639	689	715	775	815	2x200	3x200
MTRM 1120	1084	1037	793	220	898	968	1018	638	708	758	805	861	905	3x200	4x200
MTRM 1250	1214	1163	898	220	1007	1077	1127	715	785	835	905	958	1005	3x200	4x200
MTRM 1400	1325	1272	990	220	1130	1210	1270	801	881	941	1007	1067	1107	3x200	5x200
MTRM 1600	1500	1434	1085	220	1276	1347	1407	898	978	1038	1130	1200	1250	4x200	6x200
MTRM 1800	1710	1610	1300	250	1421	1501	1561	1007	1087	1147	1260	1337	1380	4x200	6x200
MTRM 2000	1890	1811	1455	250	1593	1683	1753	1130	1220	1290	1420	1491	1540	5x200	7x200

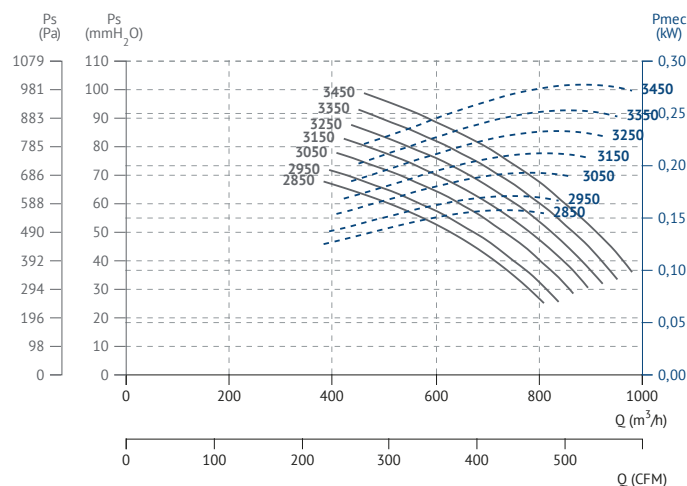
CONNECTION DIAGRAMS / esquema de conexiones

1 THREE PHASE MOTORS 1 SPEED / motores trifásicos 1 velocidad

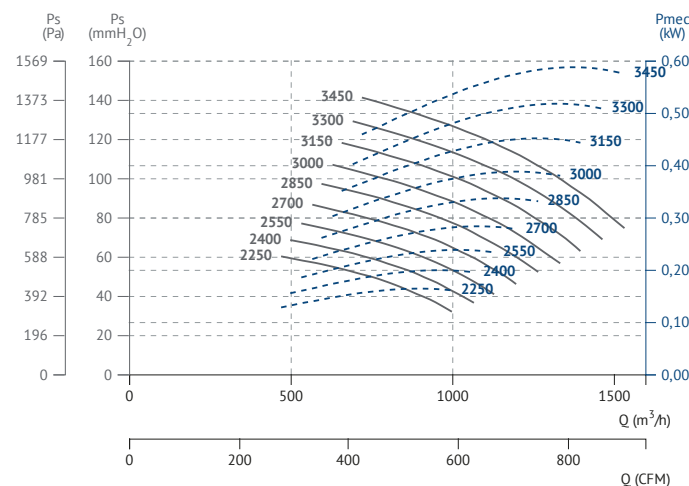


CHARACTERISTIC CURVES / curvas características

MTRM 220

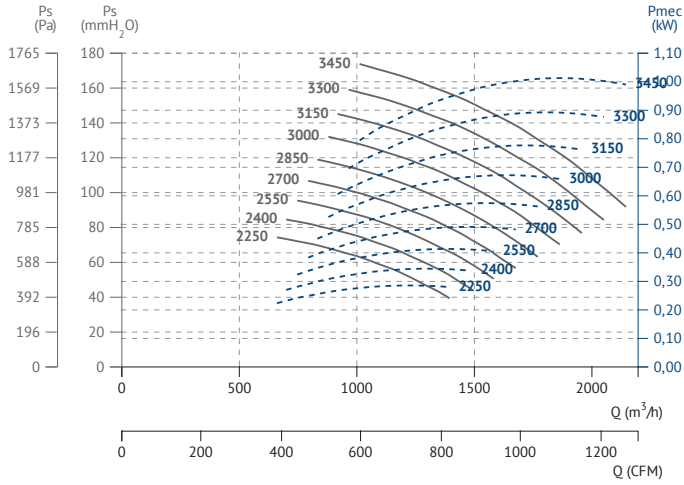


MTRM 250

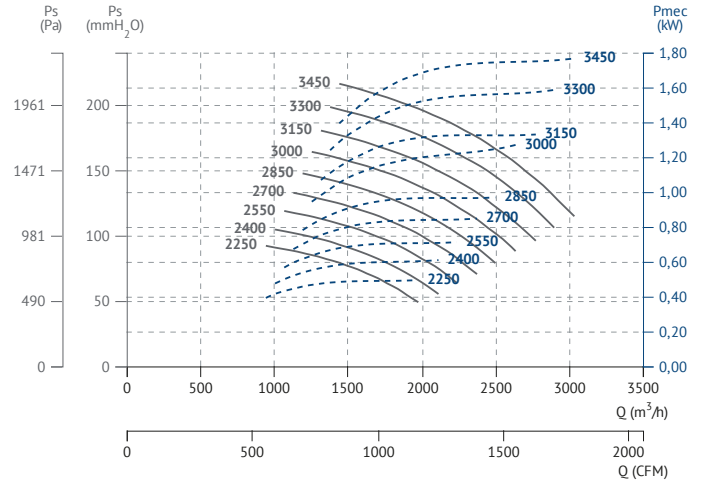




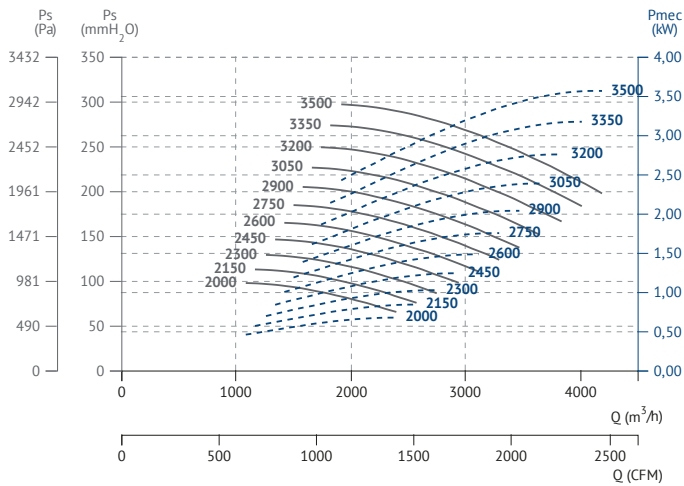
MTRM 280



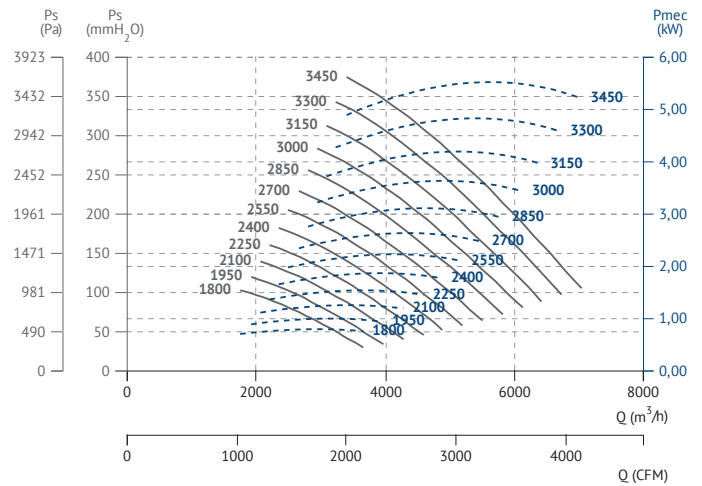
MTRM 310



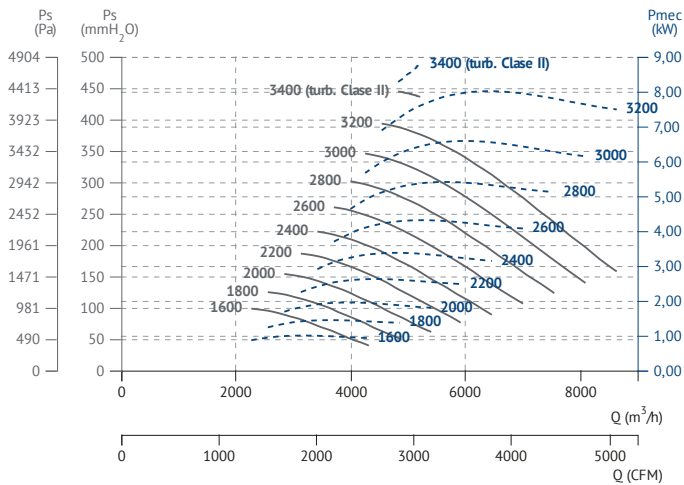
MTRM 350



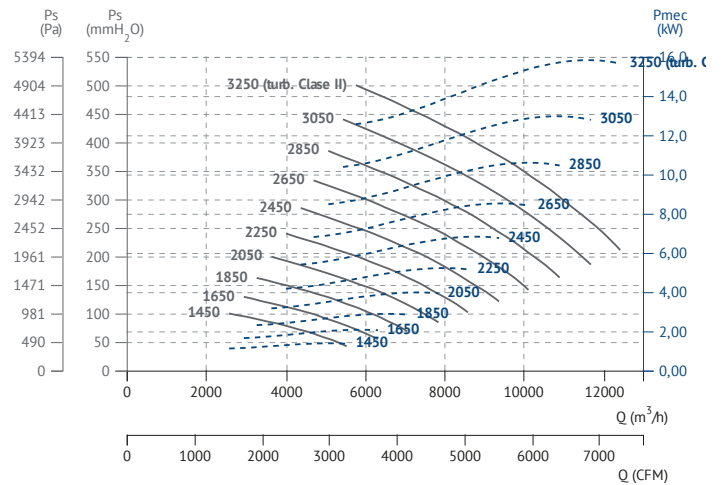
MTRM 400



MTRM 450

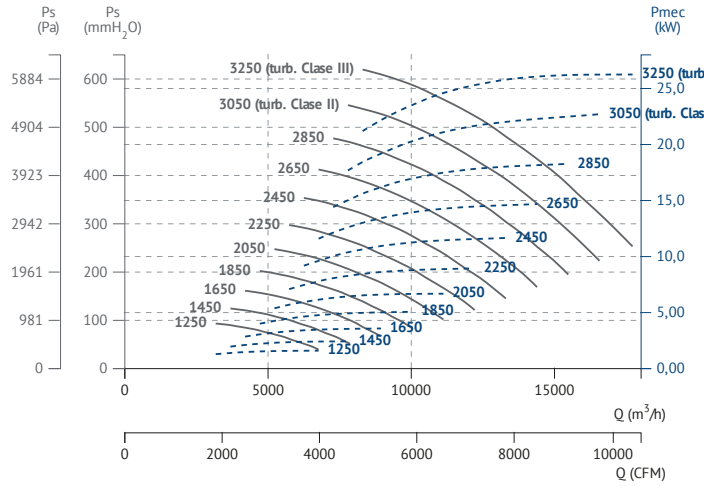


MTRM 500

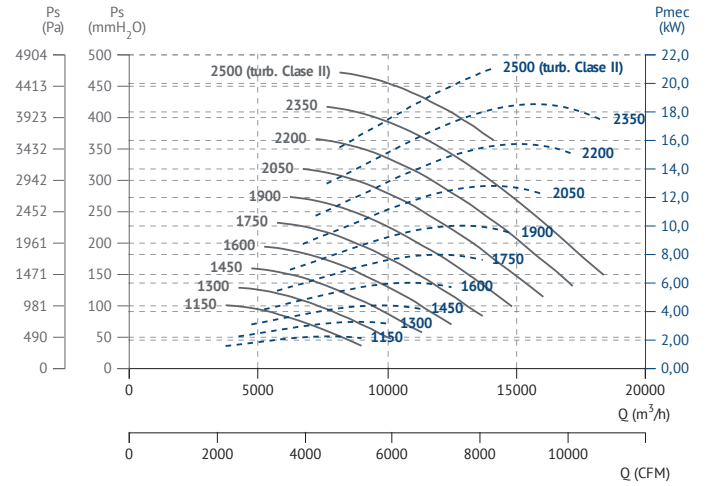




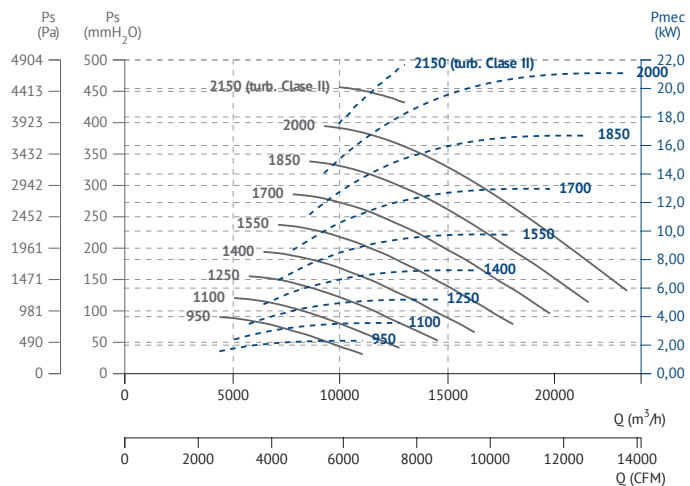
MTRM 560



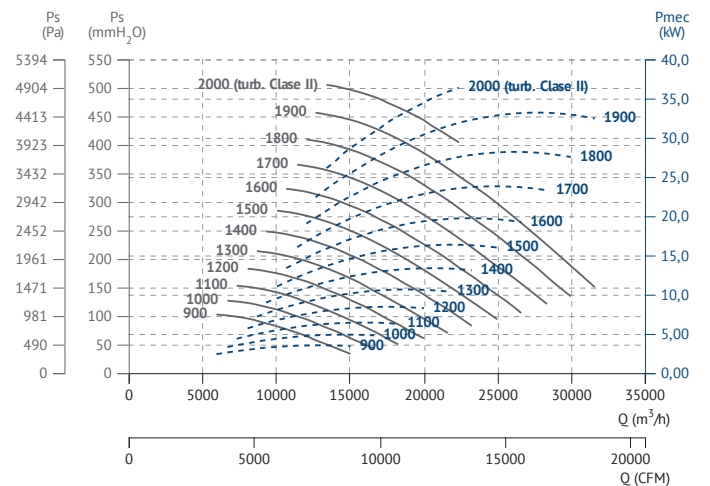
MTRM 630



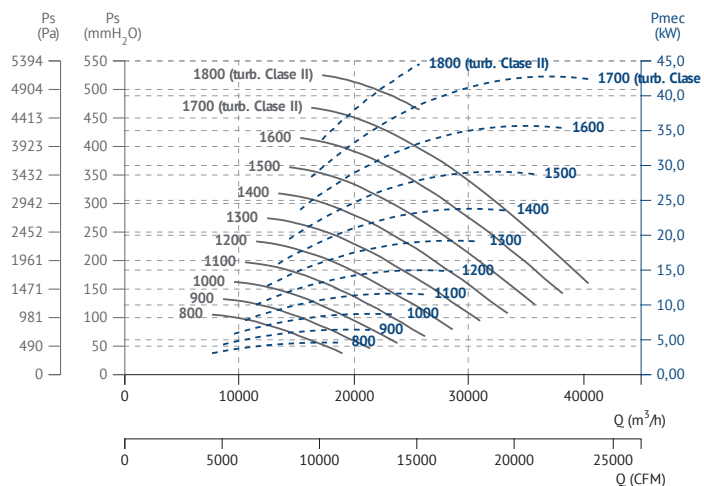
MTRM 710



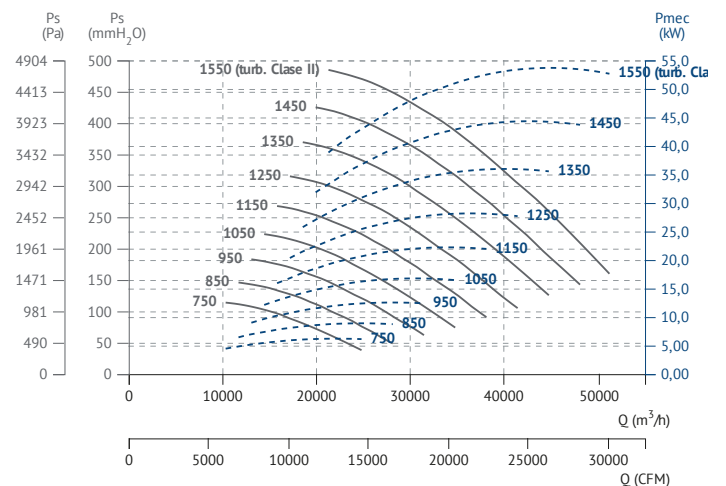
MTRM 800



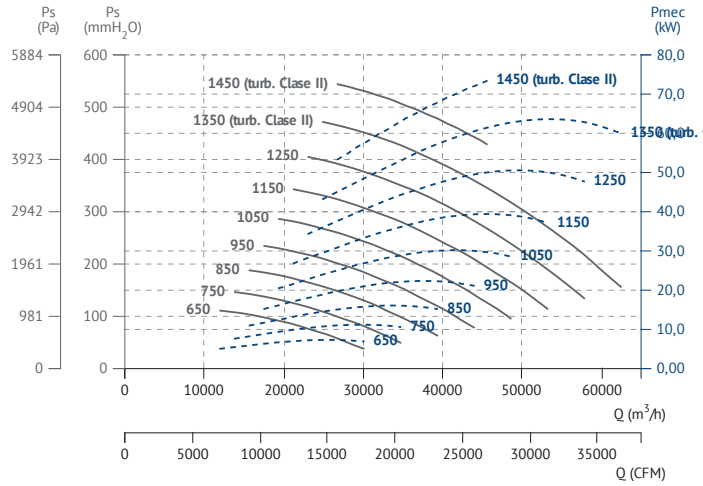
MTRM 900



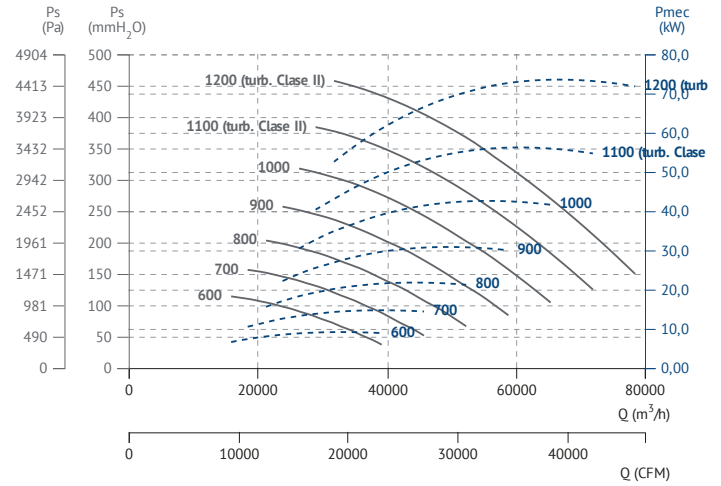
MTRM 1000



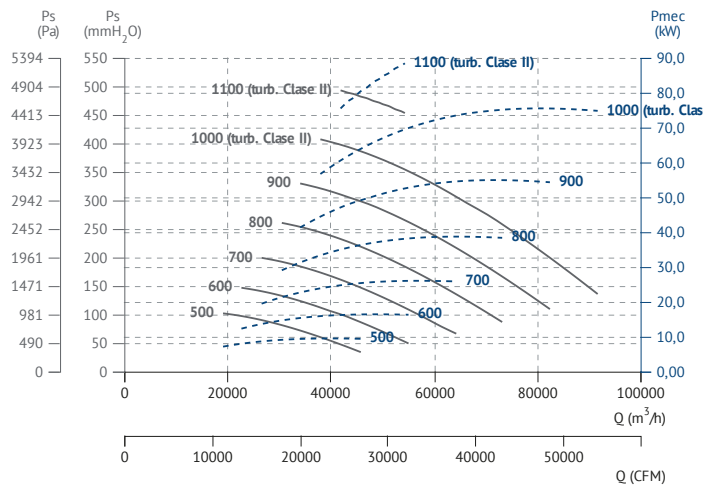
MTRM 1120



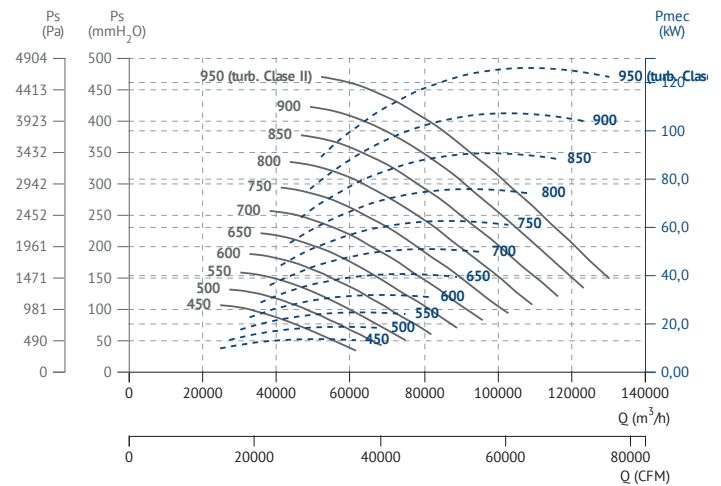
MTRM 1250



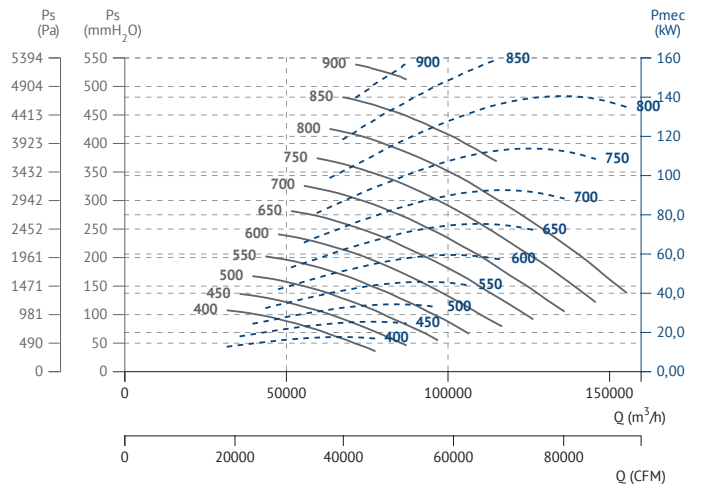
MTRM 1400



MTRM 1600



MTRM 1800



MTRM 2000

