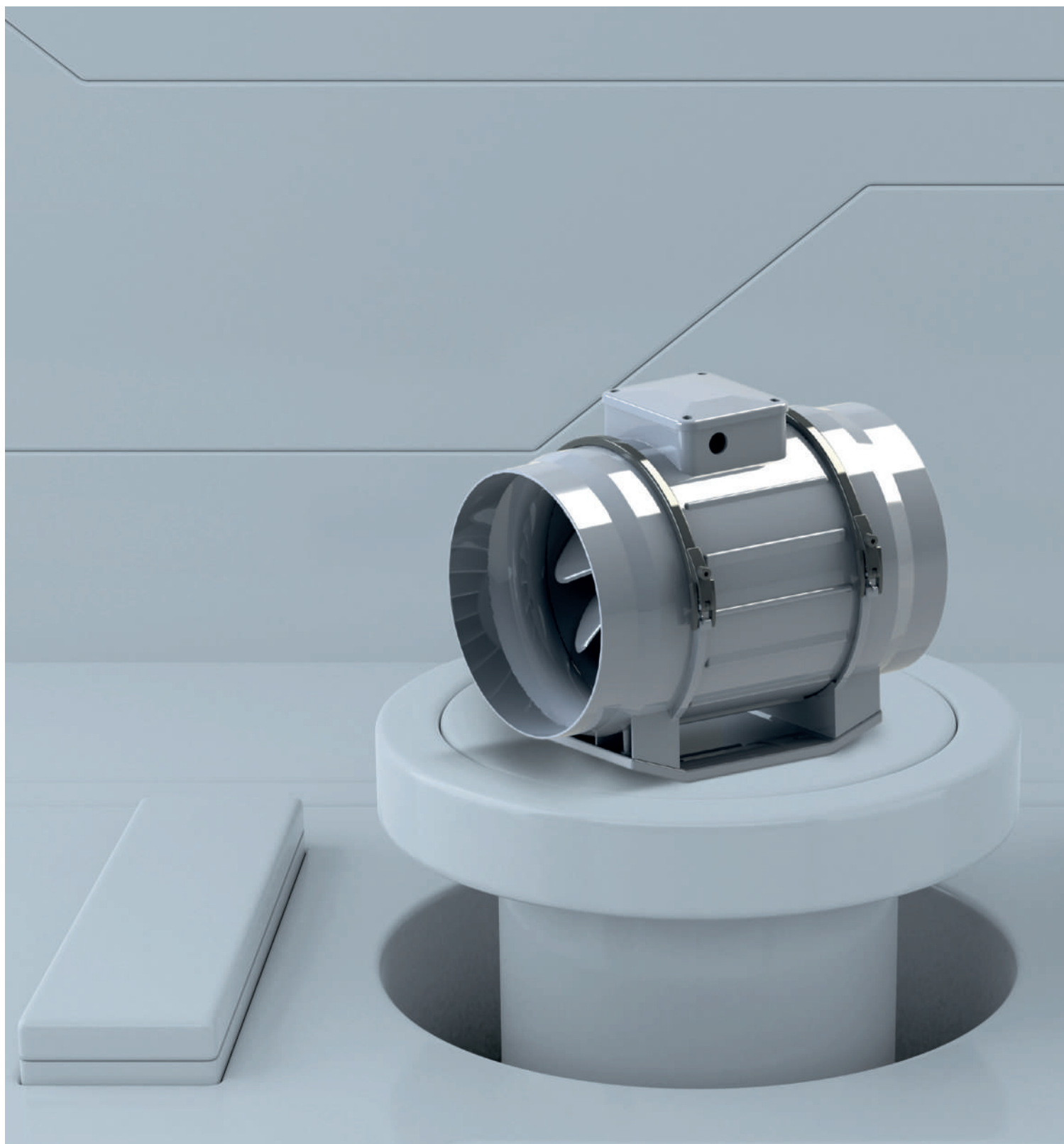


IN LINE DUCT FANS



In Line Duct Fans

MFF

MFF-FR

MID

MID-R

MID-RX

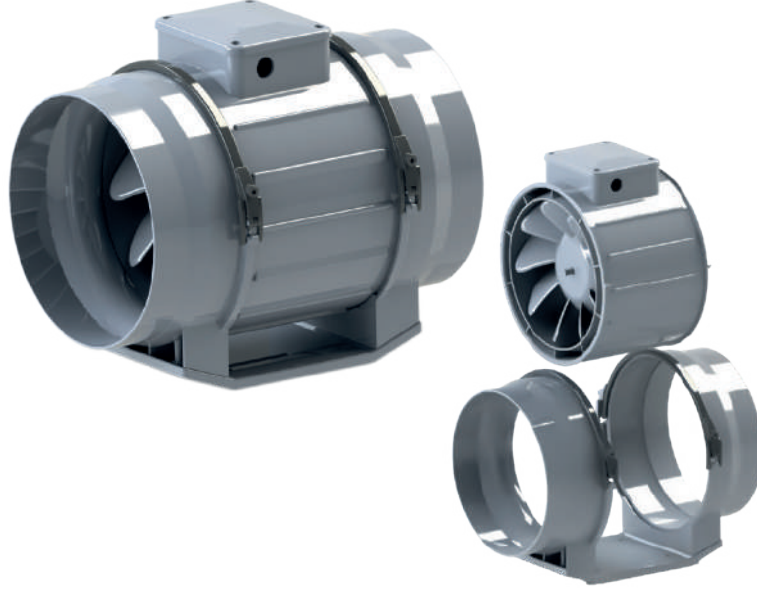
MID-A

MAD

LINEO

LINEO QUIET

LINEO QUIET ES



Motor Insulation Class	Motor Protection Class	Impeller Material	Body Material	Working Temperature	Standards
F - Class	IP 44	Plastic	Plastic	-20 - + 50 °C	IEC-60335-2-80 ISO 1940-1

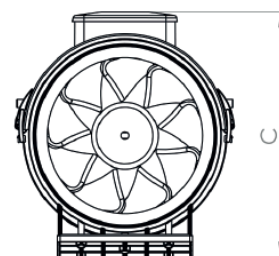
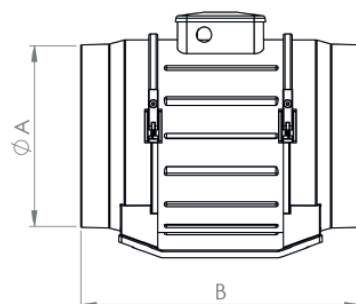
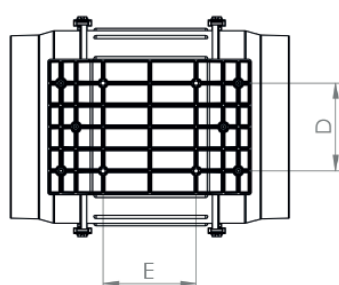
MFF

MIXED FLOW PLASTIC IN-LINE FAN

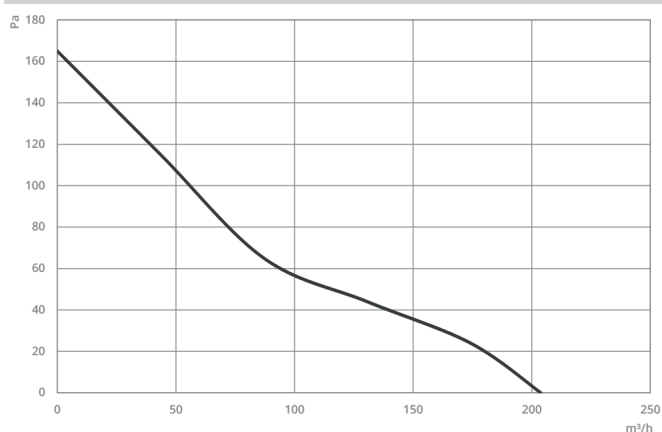
MMF serie mixed flow fans can be used in your small duct systems easily. If preferred, V0 Insulation Class is also available in our MMF-FR series.

Technical Information

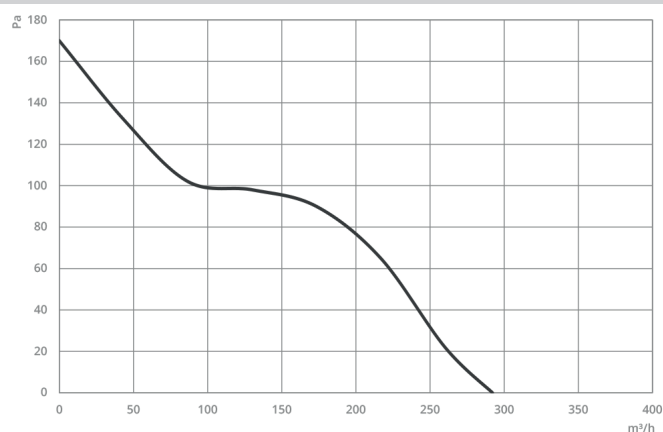
Model Type	Max m ³ /h	W	rpm d/d	Hz	Voltage	Sound dB
MMF - 100	203	54	2198	50	230	31
MMF - 125	298	56	2190	50	230	32
MMF - 150	444	75	2110	50	230	33
MMF - 160	490	75	2137	50	230	33



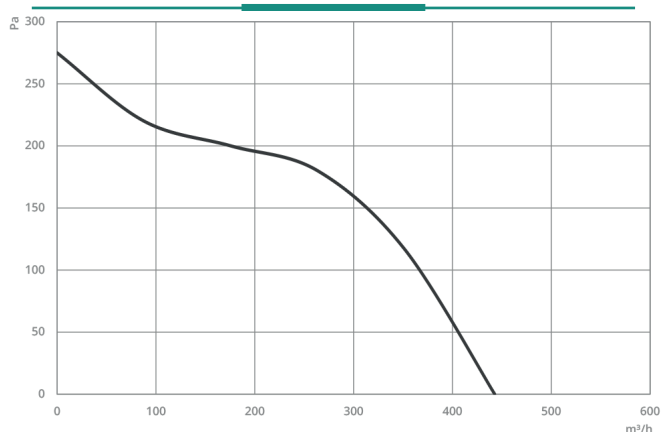
Model Type	A	B	C	D	E
MMF - 100	96	306,5	215	60	80
MMF - 125	121	260	215	60	80
MMF - 150	146	290,5	242	60	80
MMF - 160	156	271	242	60	80



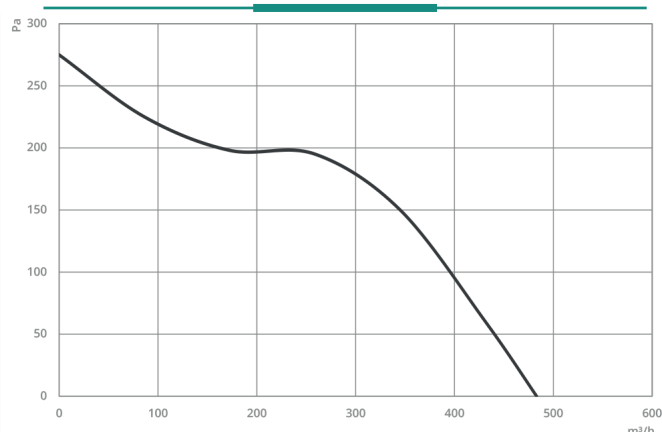
MMF - 100



MMF - 125



MMF - 150



MMF - 160



CE



Options On Request



Flame Retardant

Motor Insulation Class	Motor Protection Class	Impeller Material	Body Material	Working Temperature	Standards
F - Class	IP 44	Plastic	Plastic	-20 - + 50 °C	IEC-60335-2-80, ISO 1940-1

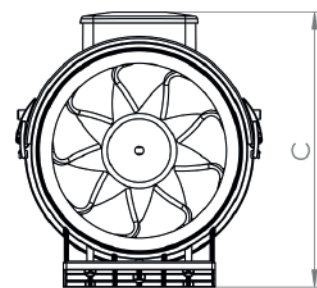
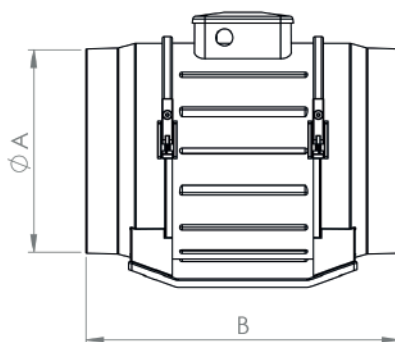
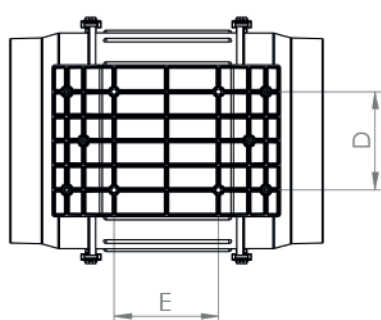
MFF-FR

MIXED FLOW PLASTIC IN-LINE FAN

MMF serie mixed flow fans can be used in your small duct systems easily. If preferred, V0 Insulation Class is also available in our MMF-FR series.

Technical Information

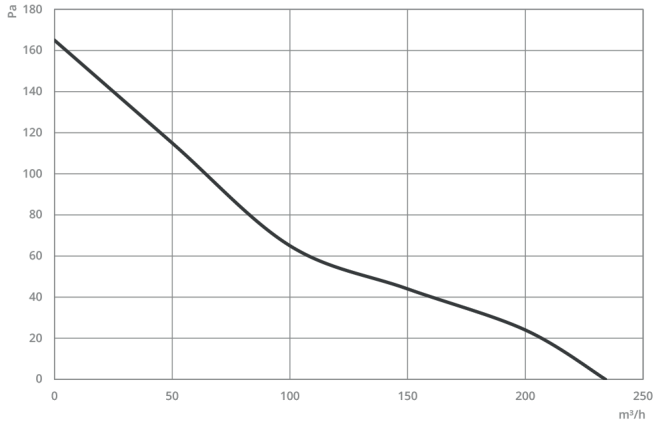
Model Type	Max m ³ /h	W	rpm d/d	Hz	Voltage	Sound dB
MMF - FR - 100	234	54	2460	50	230	31
MMF - FR - 125	337	56	2560	50	230	32
MMF - FR - 150	504	75	2490	50	230	33
MMF - FR - 160	560	75	2490	50	230	33
MMF - FR - 200	1012	111	2410	50	230	36
MMF - FR - 250	1350	280	2460	50	230	38
MMF - FR - 315	1970	476	2476	50	230	42



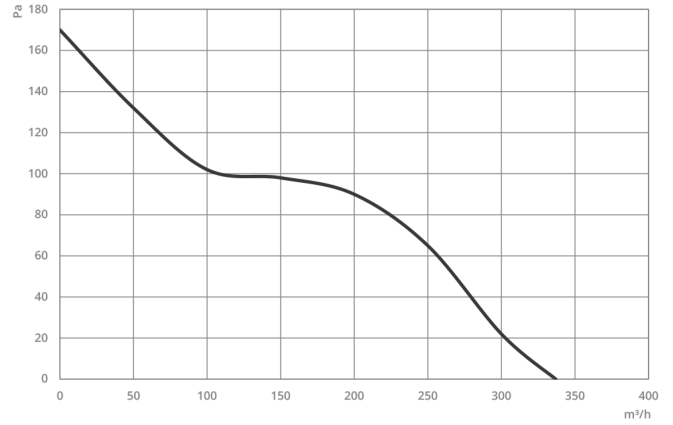
Model Type	A	B	C	D	E
MMF - FR - 100	96	306,5	215	60	80
MMF - FR - 125	121	260	215	60	80
MMF - FR - 150	146	290,5	242	60	80
MMF - FR - 160	156	271	242	60	80
MMF - FR - 200	191	300	263	94	100
MMF - FR - 250	246	393	325	110	140
MMF - FR - 315	310	450	420	175	180



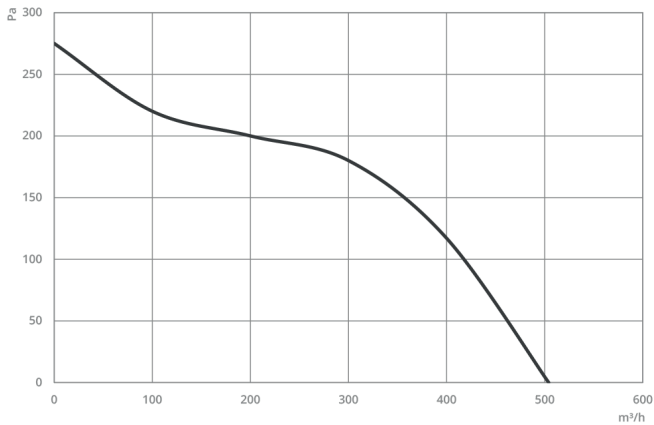
Pressure Curves



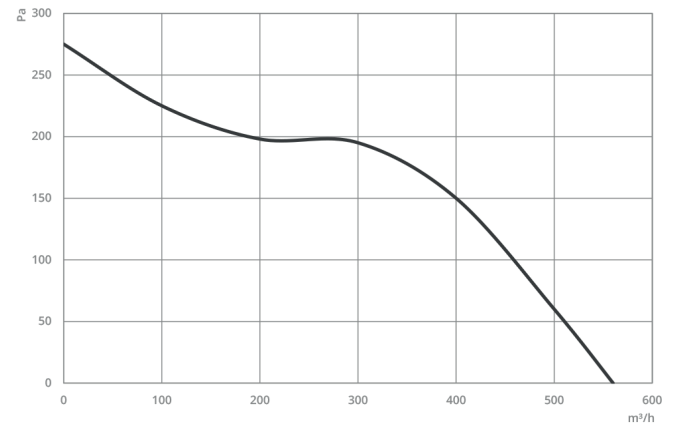
MMF - FR - 100



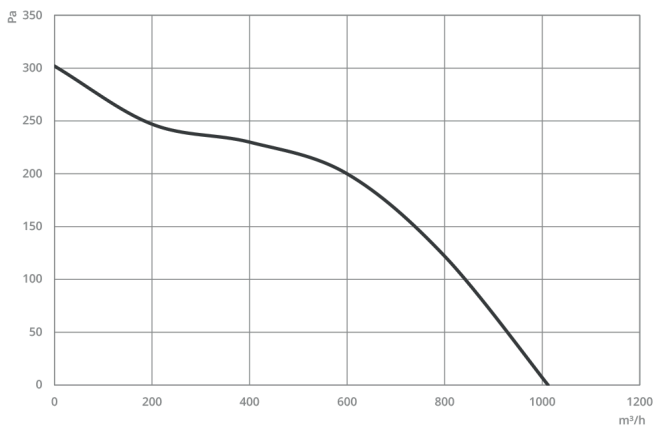
MMF - FR - 125



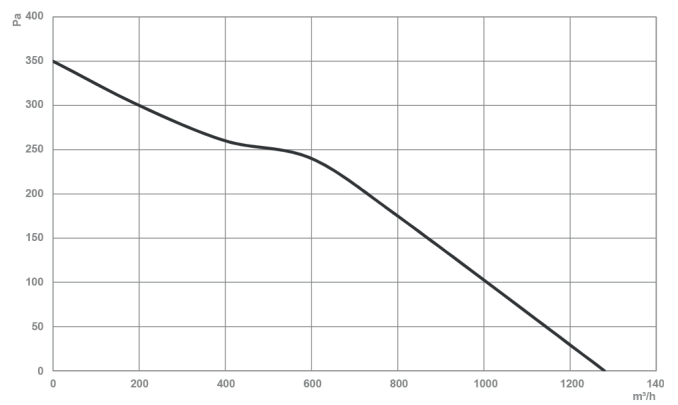
MMF - FR - 150



MMF - FR - 160

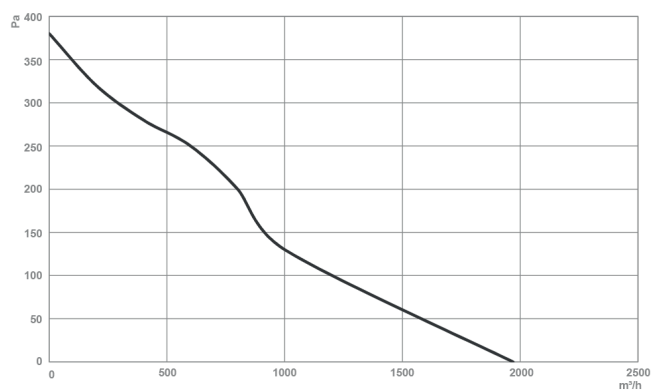


MMF - FR - 200



MMF - FR - 250

Pressure Curves



MMF - FR - 315





CE



Motor Insulation Class	Motor Protection Class	Body Material	Impeller Material	Working Temperature	Standards
F - Class	IP 44	Galvanized Sheet Metal	Galvanized Sheet Metal	-20 - + 50 °C	IEC-60335-2-80, ISO 1940-1

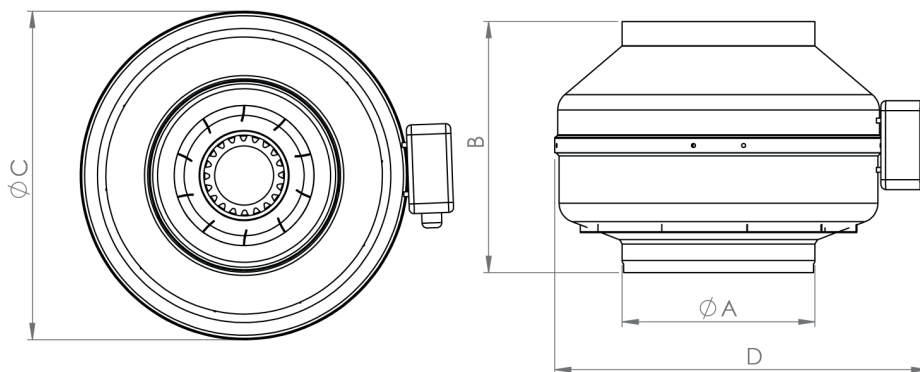
MID

CENTRIFUGAL IN-LINE CIRCULAR DUCT FAN

MID Serie In-line Circular Duct fans can be used in low to medium volume requirements. Easy-to-install & low noise level and high energy efficiency.

Technical Information

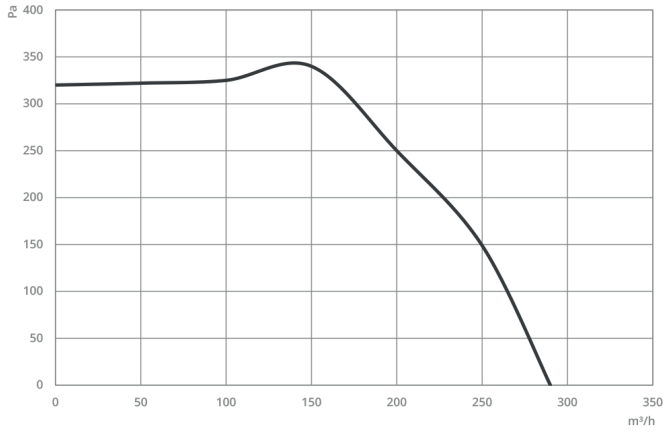
Model Type	Max m ³ /h	W	rpm d/d	Hz	Voltage	Sound dB
MID - 100	290	80	2600	50	230	45
MID - 125	410	80	2600	50	230	45
MID - 150	700	85	2600	50	230	46
MID - 160	710	85	2600	50	230	48
MID - 200	1000	122	2675	50	230	48
MID - 250	1120	145	2685	50	230	50
MID - 315	1750	210	2615	50	230	53
MID - 355	2200	380	2480	50	230	56



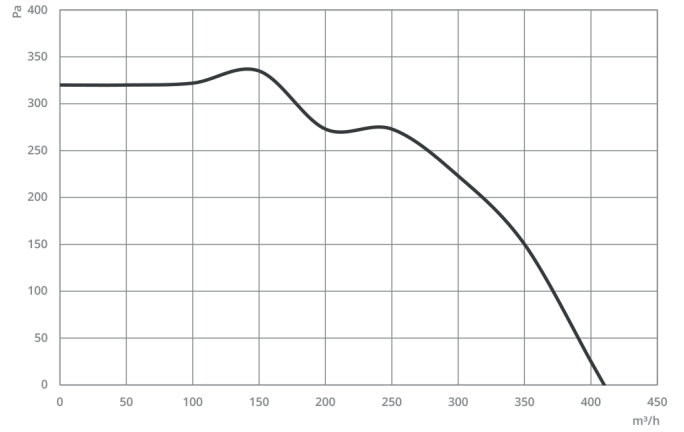
Model Type	A	B	C	D
MID - 100	100	208	246	290
MID - 125	100	208	246	290
MID - 150	150	196	270	320
MID - 160	160	196	270	320
MID - 200	200	255	333	380
MID - 250	250	234	331	380
MID - 315	315	283	401	450
MID - 355	355	225	401	450



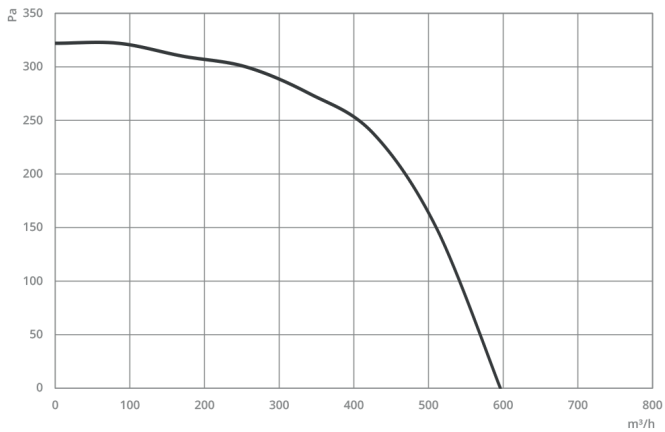
Pressure Curves



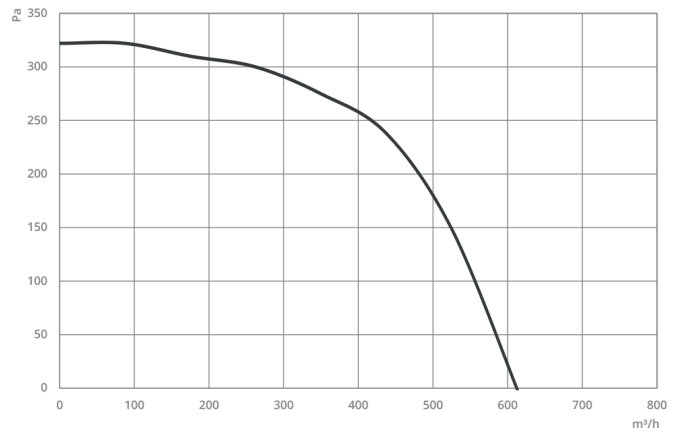
MID - 100



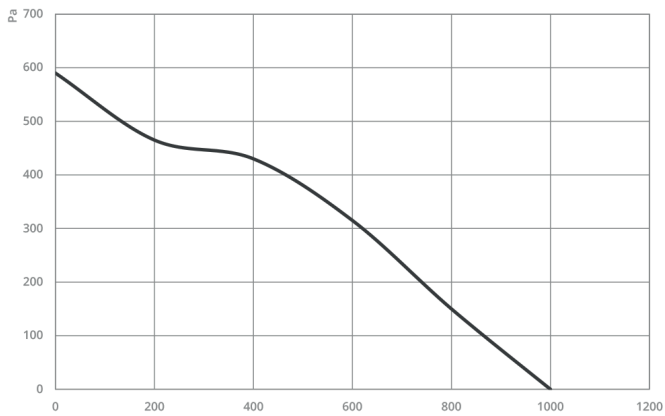
MID - 125



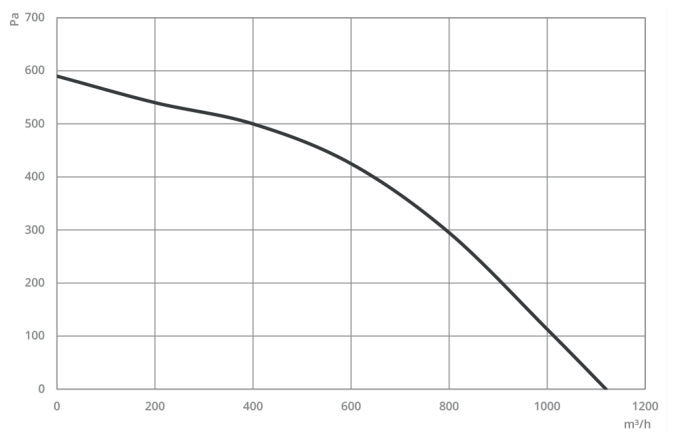
MID - 150



MID - 160

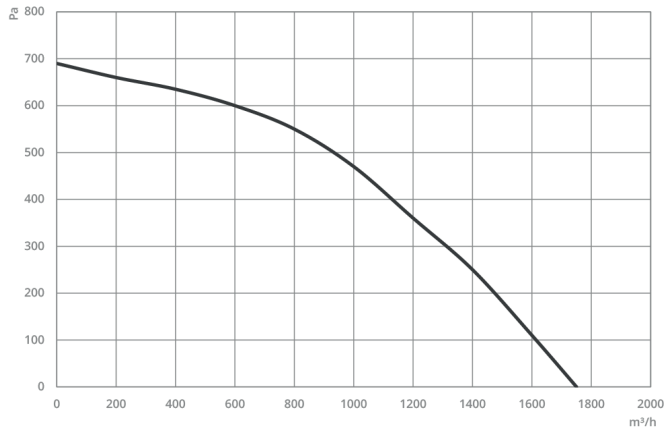


MID - 200

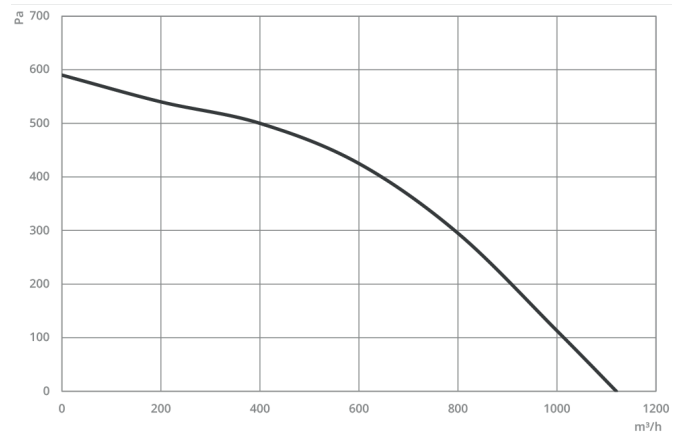


MID - 250

Pressure Curves



MID - 315



MID - 355





CE



Motor Insulation Class	Motor Protection Class	Body Material	Impeller Material	Working Temperature	Standards
F - Class	IP 44	Galvanized Sheet Metal	Aluminium / Galvanized Metal	-20 - + 50 °C	IEC-60335-2-80, ISO 1940-1

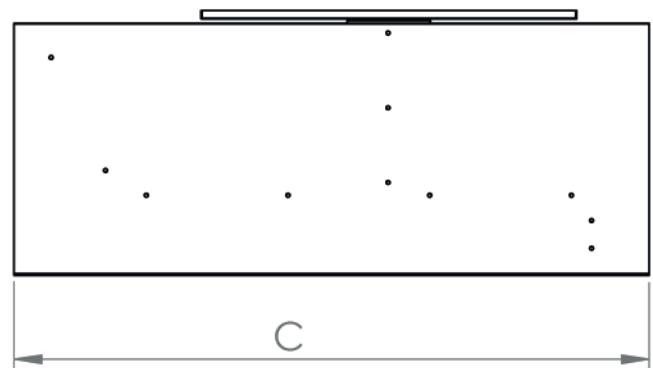
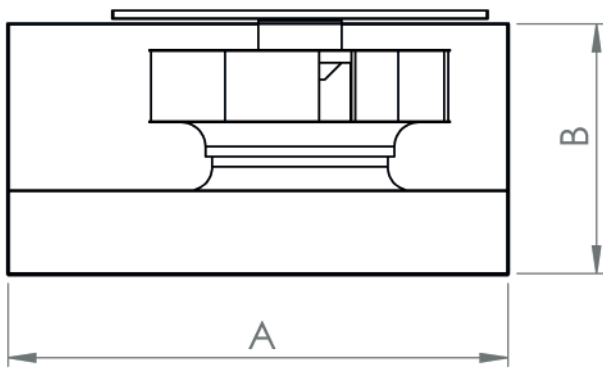
MID-R

CENTRIFUGAL IN-LINE RECTANGULAR DUCT FAN

MID-R serie fans can be mounted to rectangular duct directly. A perfect solutions in medium airflow needs. Discharge hatch allows easy maintenance and cleaning.

Technical Information

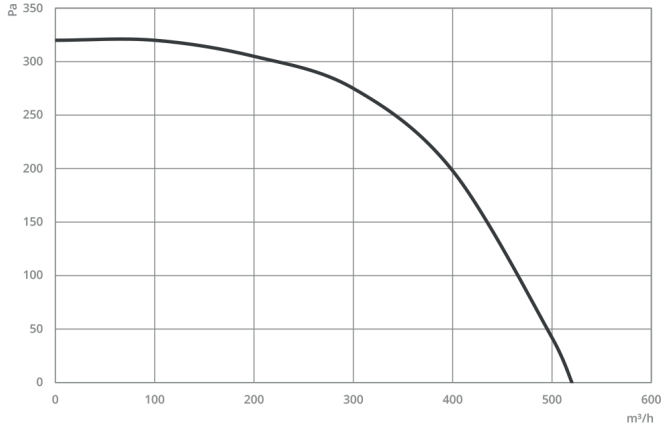
Model Type	Max m ³ /h	W	rpm d/d	Hz	Voltage	Sound dB
MID - R - 30 - 15	520	90	2600	50	230	51
MID - R - 40 - 20 A	950	104	2675	50	230	55
MID - R - 40 - 20 B	1150	130	2685	50	230	59
MID - R - 50 - 25	1600	180	2615	50	230	61
MID - R - 60 - 30	2350	147	1360	50	230	57
MID - R - 60 - 35	3400	380	1362	50	230	62
MID - R - 70 - 40	4900	690	1367	50	230	63
MID - R - 80 - 50	7000	830	1364	50	230-380	67
MID - R - 100 - 50	9300	1460	1369	50	380	69



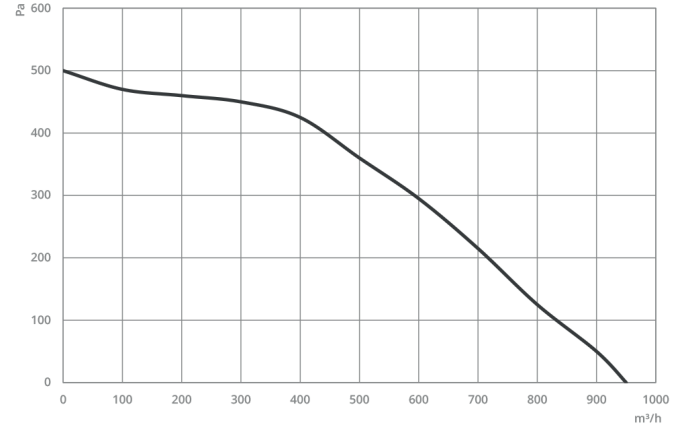
Model Type	A	B	C
MID - R - 30 - 15	300	150	400
MID - R - 40 - 20 A	400	200	500
MID - R - 40 - 20 B	400	200	500
MID - R - 50 - 25	500	250	565
MID - R - 60 - 30	600	300	760
MID - R - 60 - 35	600	350	765
MID - R - 70 - 40	700	400	790
MID - R - 80 - 50	800	500	900
MID - R - 100 - 50	1000	500	1050



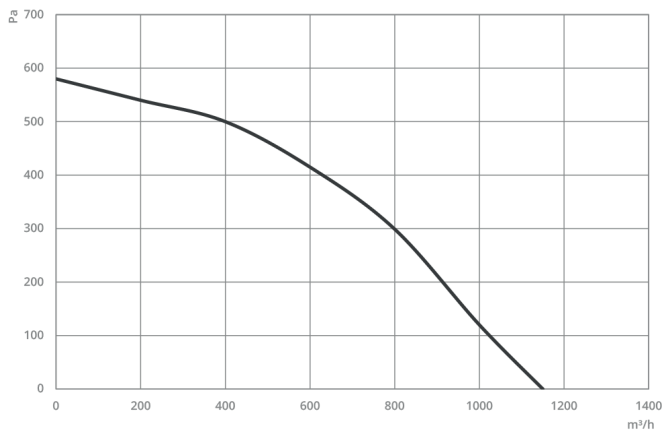
Pressure Curves



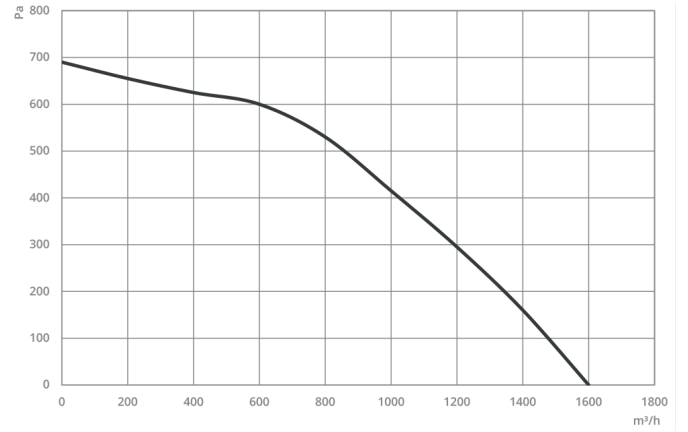
MID - R - 30 - 15



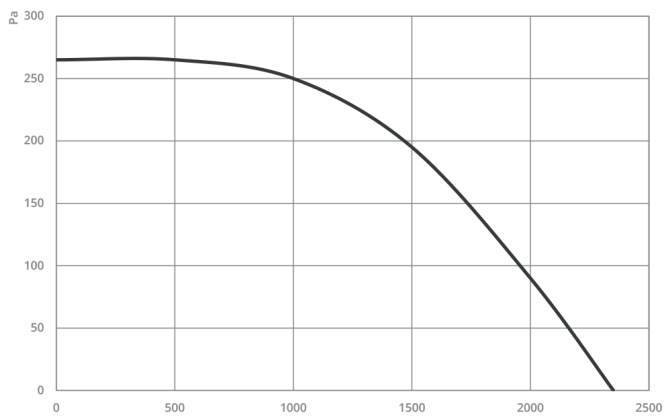
MID - R - 40 - 20 A



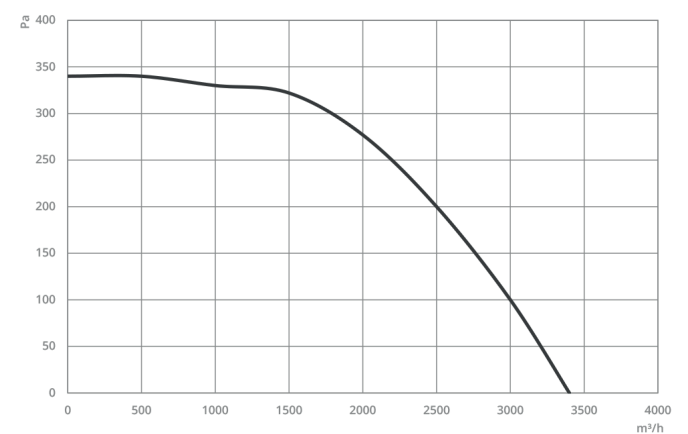
MID - R - 40 - 20 B



MID - R - 50 - 25

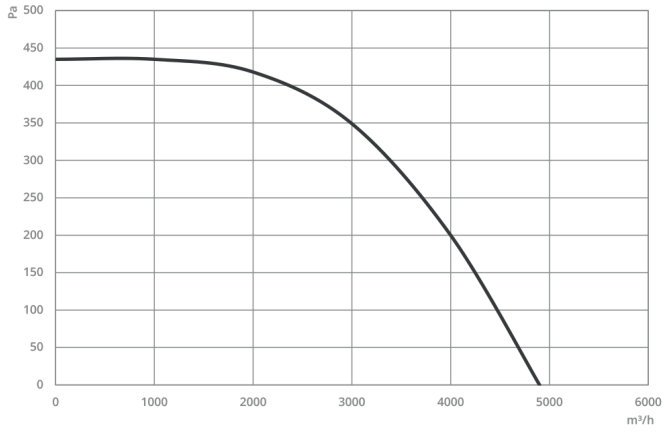


MID - R - 60 - 30

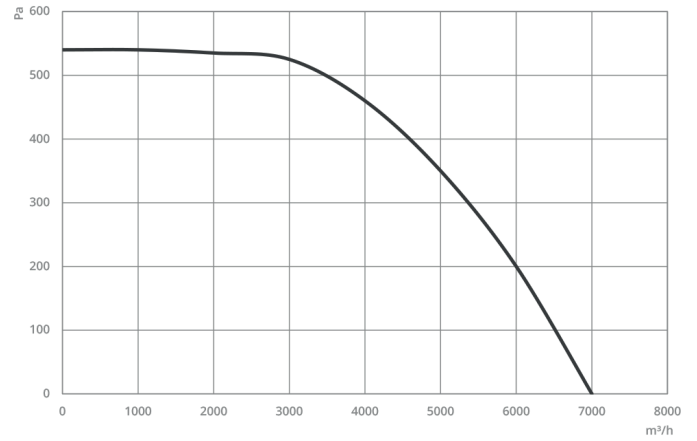


MID - R - 60 - 35

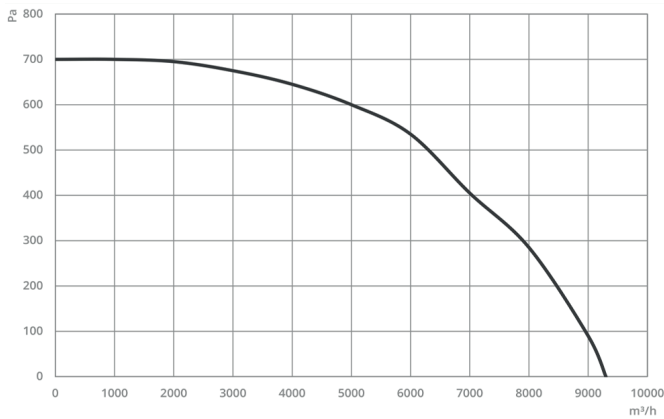
Pressure Curves



MID - R - 70 - 40



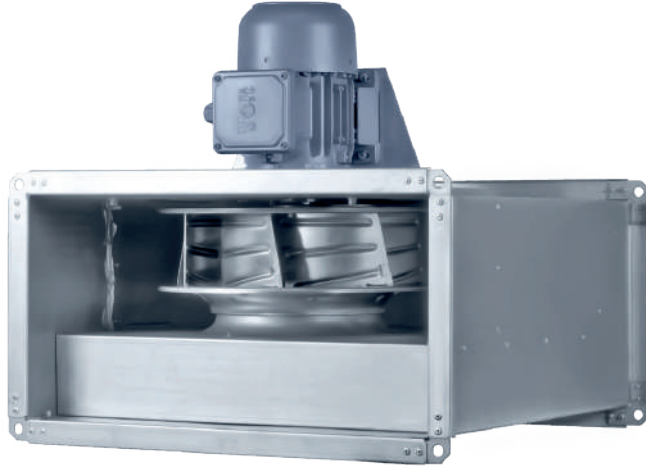
MID - R - 80 - 50



MID - R - 100 - 50



CE



Options On Request



Ex-Proof

Motor Insulation Class	Motor Protection Class	Body Material	Impeller Material	Working Temperature	Standards
F - Class	IP 55	Galvanized Sheet Metal	Aluminium / Galvanized Metal	-20 - + 50 °C	IEC-60335-2-80, ISO 1940-1

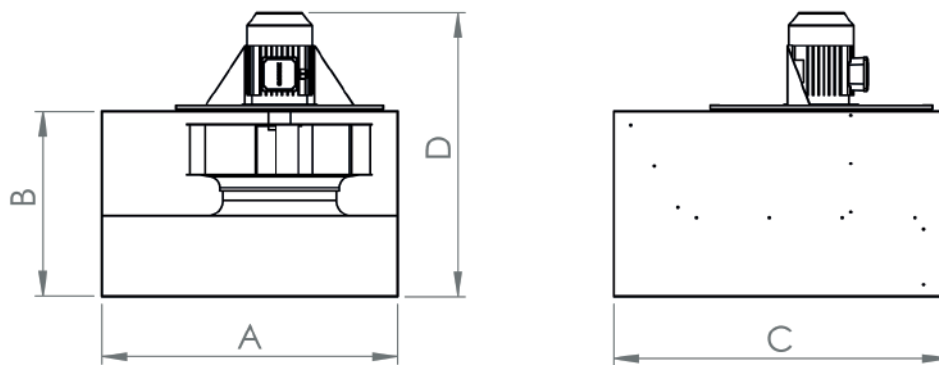
MID-RX

CENTRIFUGAL IN-LINE RECTANGULAR DUCT FAN WITH MOTOR OUT OF AIR

MID-RX Serie fans can be mounted to rectangular duct directly. Electrical motor is out of the airstream on the fan. Discharge hatch allows easy maintenance and cleaning.

Technical Information

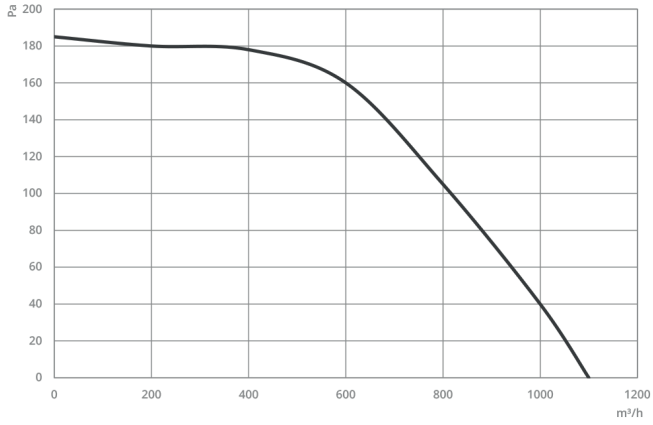
Model Type	Max m ³ /h	kW	rpm d/d	Hz	Voltage	Sound dB
MID - RX - 280	1100	0,18	1450	50	380	58
MID - RX - 315	1600	0,25	1469	50	380	58
MID - RX - 355	2300	0,37	1471	50	380	60
MID - RX - 400	3300	0,55	1478	50	380	61
MID - RX - 450	5000	0,75	1454	50	380	63
MID - RX - 500	7000	1,10	1462	50	380	67
MID - RX - 560	9800	1,50	1464	50	380	70



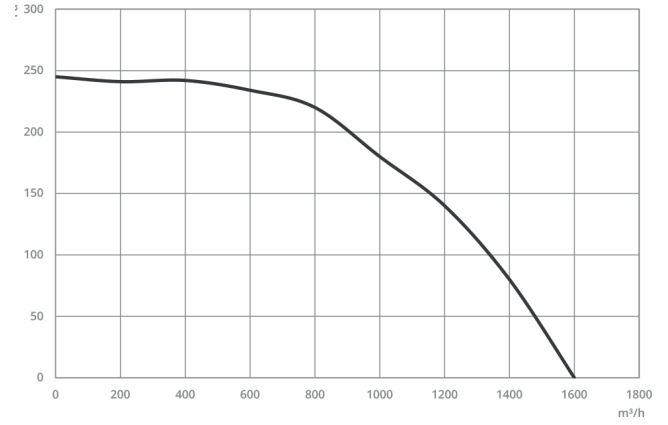
Model Type	A	B	C	D
MID - RX - 280	500	250	565	450
MID - RX - 315	500	250	565	476
MID - RX - 355	600	300	760	526
MID - RX - 400	600	350	750	590
MID - RX - 450	700	400	790	641
MID - RX - 500	800	500	900	765
MID - RX - 560	1000	500	1050	790



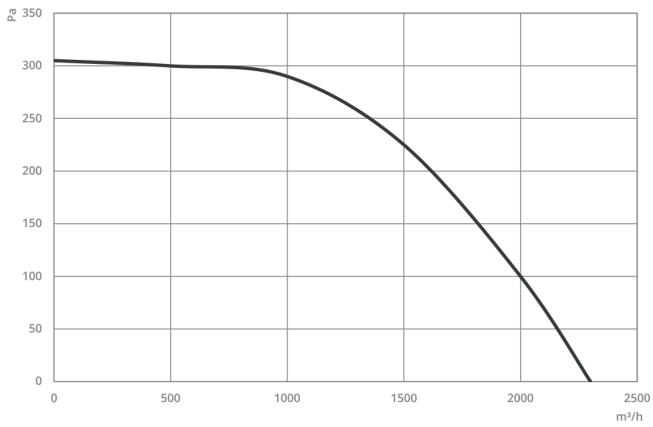
Pressure Curves



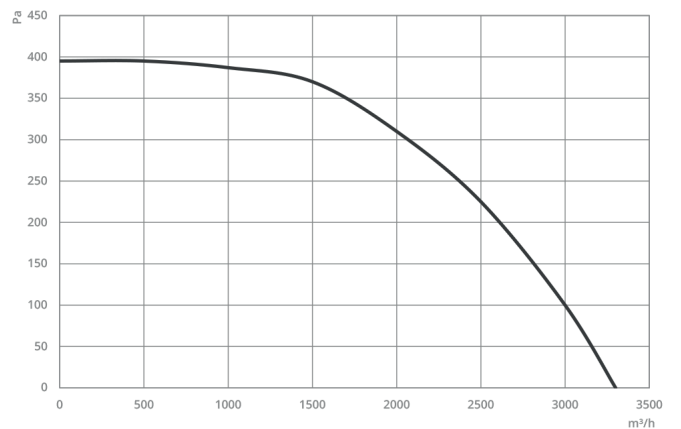
MID - RX - 280



MID - RX - 315

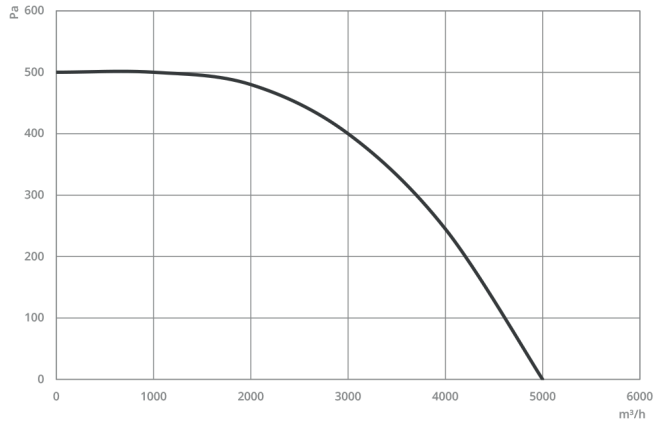


MID - RX - 355

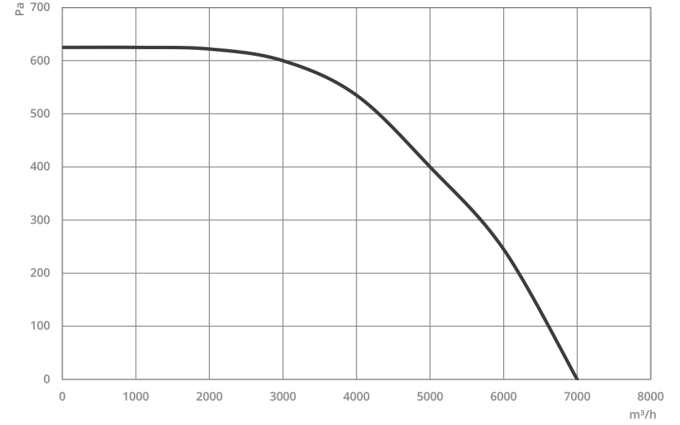


MID - RX - 400

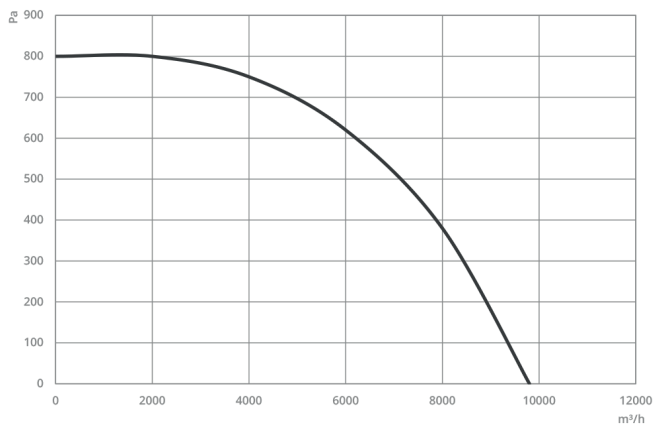
Pressure Curves



MID - RX - 450



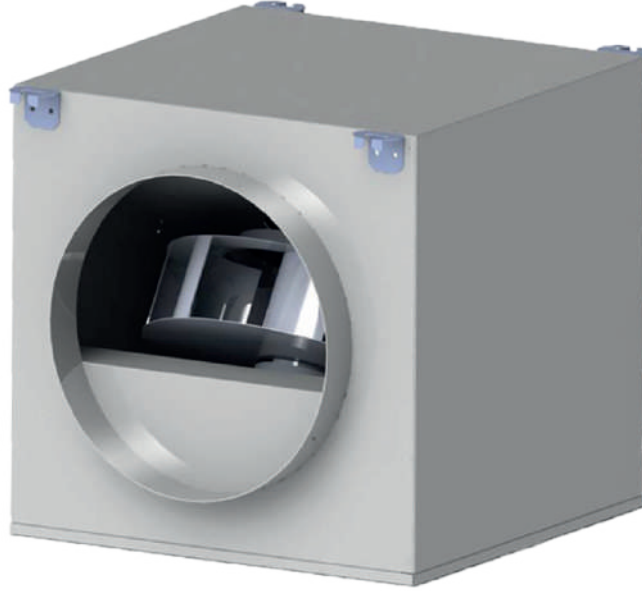
MID - RX - 500



MID - RX - 560



CE



Motor Insulation Class	Motor Protection Class	Body Material	Impeller Material	Working Temperature	Standards
F - Class	IP 44	Galvanized Sheet Metal	Aluminium / Galvanized Metal	-20 - + 50 °C	IEC-60335-2-80, ISO 1940-1

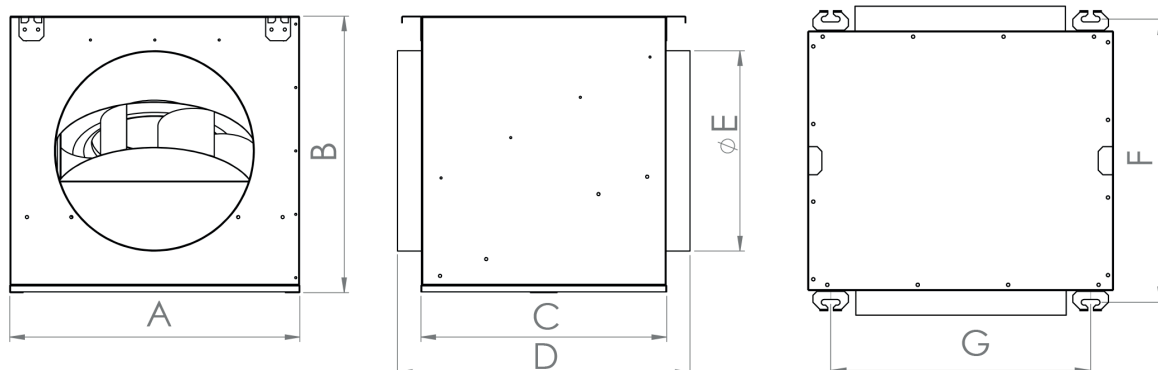
MID-A

CENTRIFUGAL IN-LINE PRISMATIC SHAPED CIRCULAR DUCT FAN

MID-A serie fans has cubic body and round outlet 4 mm XPE acoustic insulation. Thanks to its structure, it can be mounted to circular ducts directly. Preferred usages commercial and residencial ventilation systems thanks to low noise & energy consumption. Discharge hatch allows easy maintenance and cleaning.

Technical Information

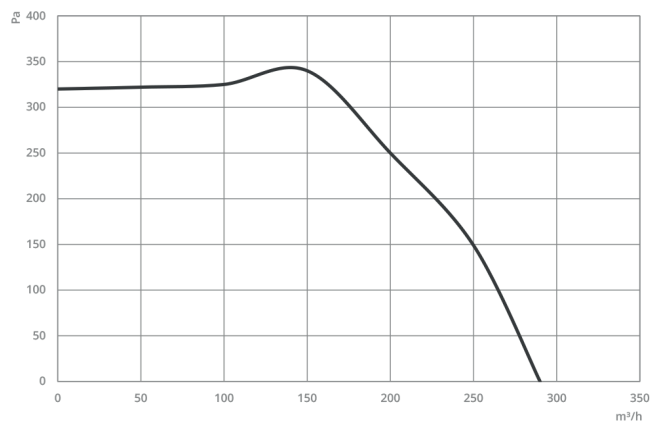
Model Type	Max m ³ /h	W	rpm d/d	Hz	Voltage	Sound dB
MID - A - 100	290	80	2600	50	230	44
MID - A - 125	410	80	2600	50	230	46
MID - A - 150	700	85	2600	50	230	50
MID - A - 160	710	85	2600	50	230	52
MID - A - 200	1000	122	2675	50	230	55
MID - A - 250	1120	145	2685	50	230	62
MID - A - 315	1750	210	2615	50	230	63
MID - A - 355	2200	380	1410	50	230	68
MID - A - 400	3400	380	1362	50	230	70
MID - A - 450	4900	690	1367	50	230	74
MID - A - 500	7000	830	1364	50	230 - 380	77
MID - A - 560	9300	1460	1369	50	380	79



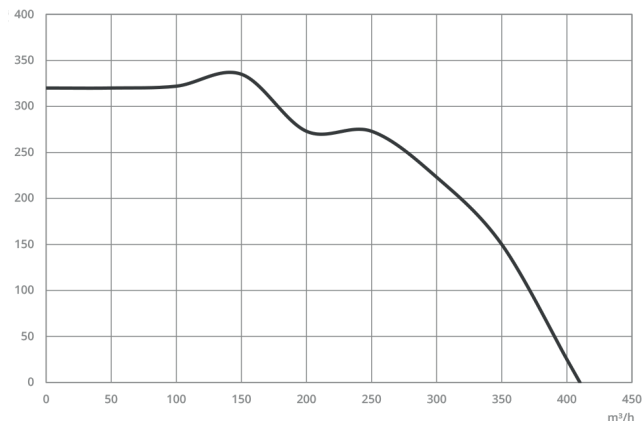
Model Type	A	B	C	D	E	F	G
MID - A - 100	342	342	304	410	100	304	246
MID - A - 125	342	342	304	410	125	304	246
MID - A - 150	342	361	304	410	150	304	246
MID - A - 160	342	381	304	410	160	304	246
MID - A - 200	392	381	354	460	200	354	296
MID - A - 250	472	422	354	460	250	354	382
MID - A - 315	502	446	404	510	315	404	406
MID - A - 355	572	522	454	560	355	454	574
MID - A - 400	602	622	554	660	400	554	506
MID - A - 450	652	622	554	660	450	554	556
MID - A - 500	702	672	604	710	500	604	654
MID - A - 560	752	802	604	710	560	604	656



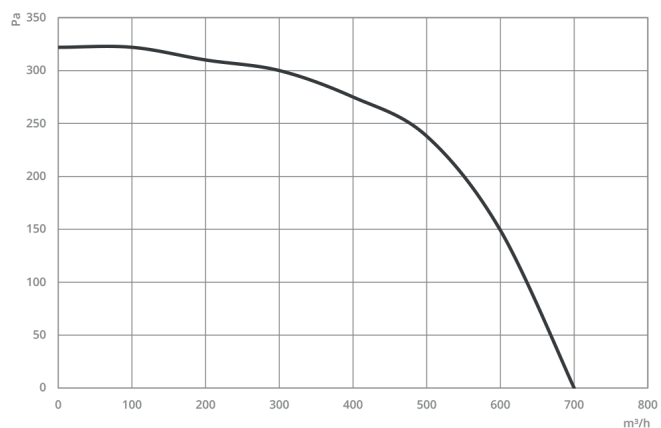
Pressure Curves



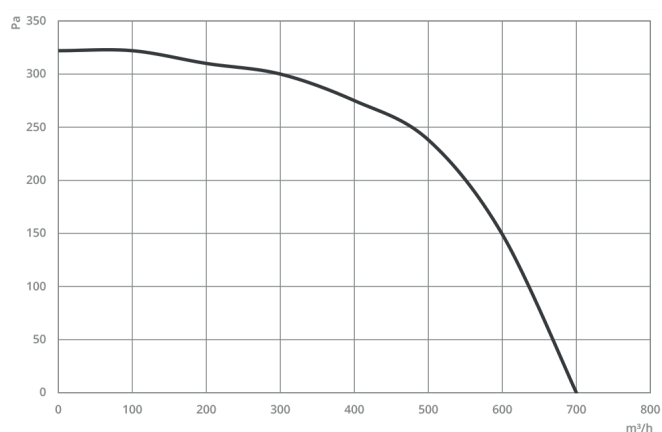
MID - A - 100



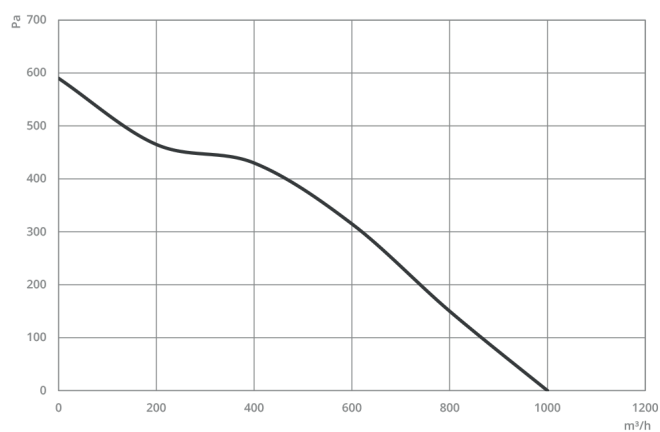
MID - A - 125



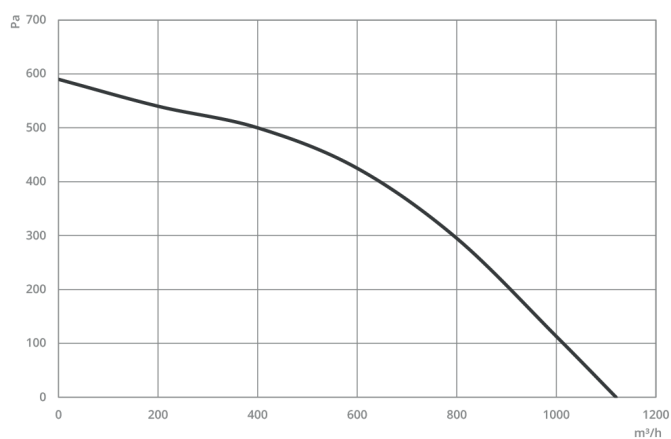
MID - A - 150



MID - A - 160

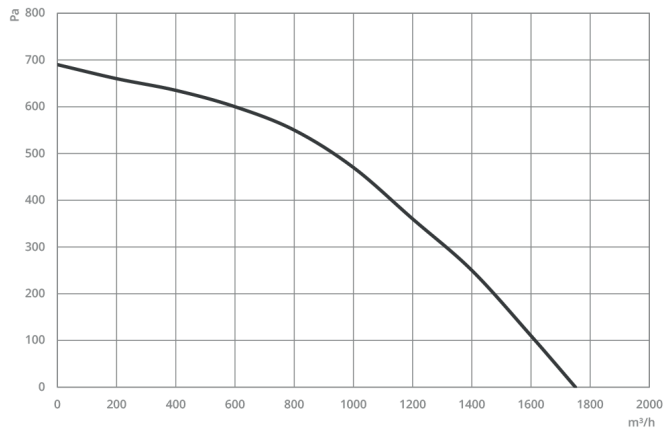


MID - A - 200

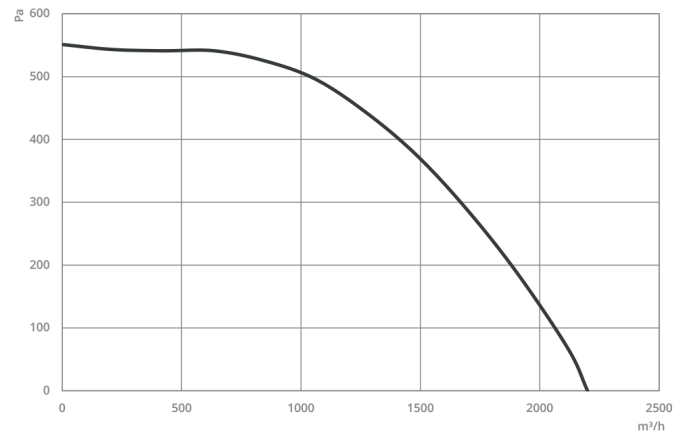


MID - A - 250

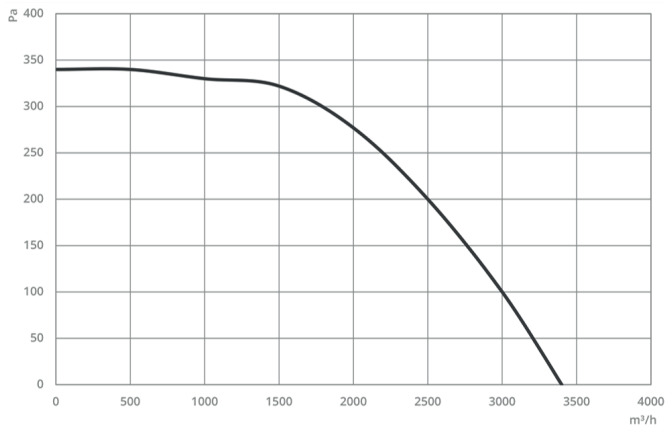
Pressure Curves



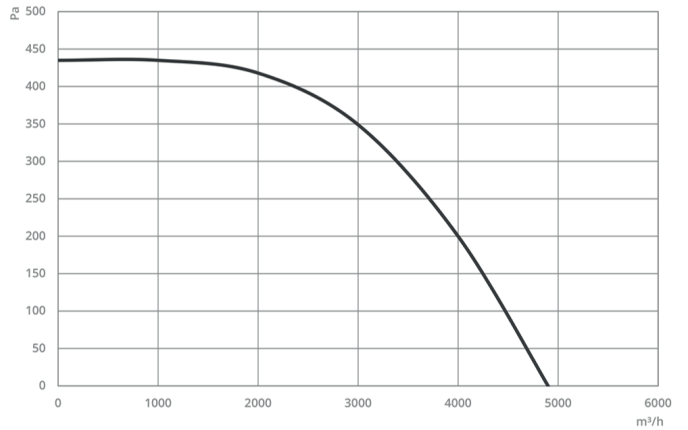
MID - A - 315



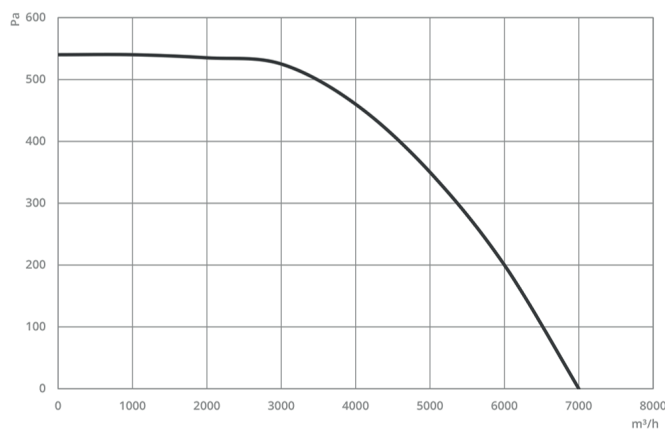
MID - A - 355



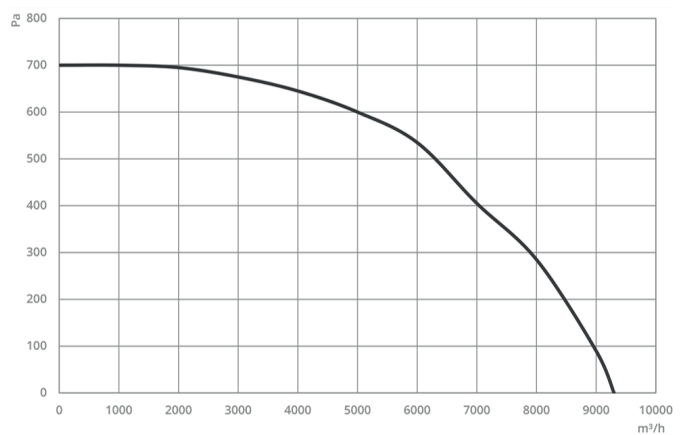
MID - A - 400



MID - A - 450



MID - A - 500



MID - A - 560



CE



Motor Insulation Class	Motor Protection Class	Body Material	Impeller Material	Working Temperature	Standards
F - Class	IP 44	Galvanized Sheet Metal	Galvanized Sheet Metal	-20 - + 50 °C	IEC-60335-2-80, ISO 1940-1

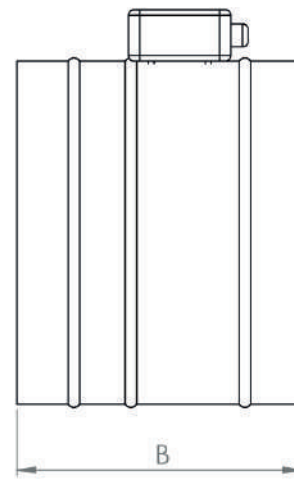
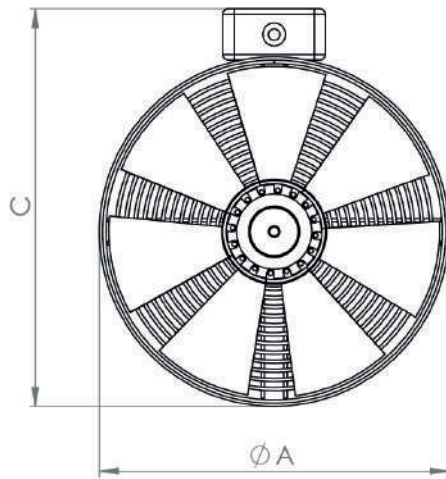
MAD

AXIAL IN-LINE DUCT FAN

MAD serie fans can be used when low airflow needs in your ventilation systems. Easy-to-install, low noise level and efficiency power usage.

Technical Information

Model Type	Max m ³ /h	W	rpm d/d	Hz	Voltage	Sound dB
MAD - 200	680	70	2650	50	230	50
MAD - 250	1500	100	2700	50	230	52
MAD - 300	2025	163	2550	50	230	54
MAD - 350	3110	240	2250	50	230	58



Model Type	A	B	C
MAD - 200	197	200	197
MAD - 250	247	250	247
MAD - 300	297	250	297
MAD - 350	347	300	347



CE



Motor Insulation Class	Motor Protection Class	Body Material	Impeller Material	Working Temperature	Standards
F - Class	IP 44	Galvanized Sheet Metal	Galvanized Sheet Metal	-20 - + 50 °C	IEC-60335-2-80, ISO 1940-1

LINEO

MIXED FLOW DUCT TYPE FANS

Lineo Serie fans have 2 speed AC motor with thermal overload cutout and shaft turning in ball bearings, coupled to mixed flow axial-centrifugal impeller. Fans made of self-extinguishing plastic resin (self-extinguishing capability V0).

Technical Information

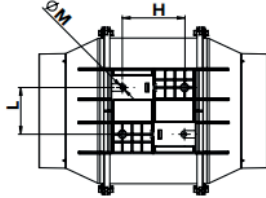
Model Type	Max m ³ /h	W	rpm d/d	Hz	Voltage	Sound dB
LINEO - 100	180	20	1520	50	220 - 240	30,7
LINEO - 100 T	255	23	2030	50	220 - 240	39,4
LINEO - 100 Q	155	12	1860	50	220 - 240	29,4
LINEO - 100 Q T	200	15	2450	50	220 - 240	37,9
LINEO - 125	250	25	1570	50	220 - 240	33,9
LINEO - 125 T	365	33	2140	50	220 - 240	43
LINEO - 150	385	40	1580	50	220 - 240	41,4
LINEO - 150 T	550	58	2100	50	220 - 240	50,5
LINEO - 160	385	40	1580	50	220 - 240	41,7
LINEO - 160 T	550	58	2100	50	220 - 240	50,8
LINEO - 200 Q	700	45	1780	50	220 - 240	39,6
LINEO - 200 Q T	950	75	2740	50	220 - 240	49
LINEO - 250 Q	720	85	1850	50	220 - 240	49,1
LINEO - 250 Q T	990	110	2550	50	220 - 240	56,2



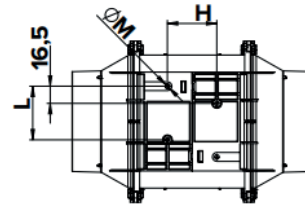
Technical Information

VERSION A

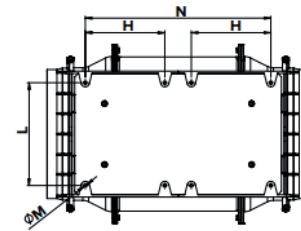
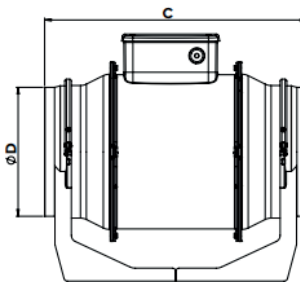
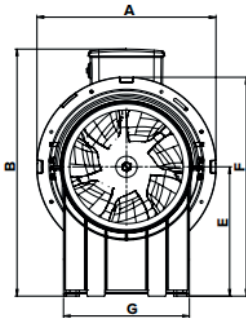
LINEO 100 - LINEO 100 T - LINEO 125 - LINEO 125 T - LINEO 150 - LINEO 150 T
 LINEO 160 - LINEO 160 T - LINEO 200 Q - LINEO 200 Q T - LINEO 250 Q - LINEO 250 Q T

**VERSION B**

LINEO 100 Q
 LINEO Q T

**VERSION C**

LINEO 200 - LINEO 200 T - LINEO 250 - LINEO 315



Model Type	A	B	C	D	E	F	G	H	L	M	N
LINEO - 100	188,5	211	303	96	101,5	189	90	60	80	5,5	-
LINEO - 100 T	188,5	211	303	96	101,5	189	90	60	80	5,5	-
LINEO - 100 Q	156	174	231	96	82	152	95	51,5	47,5	4,5	-
LINEO - 100 Q T	156	174	231	96	82	152	95	51,5	47,5	5,5	-
LINEO - 125	188,5	211	258	122	101,5	189	90	60	80	5,5	-
LINEO - 125 T	188,5	211	258	122	101,5	189	90	60	80	5,5	-
LINEO - 150	214,5	234	294	146	112,5	212	110	60	80	5,5	-
LINEO - 150 T	214,5	234	294	146	112,5	212	110	60	80	5,5	-
LINEO - 160	214,5	234	272,5	156	112,5	212	110	60	80	5,5	-
LINEO - 160 T	214,5	234	272,5	156	112,5	212	110	60	80	5,5	-
LINEO - 200	270	373	396	194,5	195	330	190	120	155	5,5	-
LINEO - 200 T	270	373	396	194,5	195	330	190	120	155	5,5	280
LINEO - 200 Q	234,5	266	300	196	125,5	235	140	94	100	5,5	-
LINEO - 200 Q T	234,5	266	300	196	125,5	235	140	94	100	5,5	-
LINEO - 250	300	378	322	243	190	329	200	70	170	5,5	174,5
LINEO - 250 Q	300	322	385	247	152,5	292	176,5	140	145	5,5	-
LINEO - 250 Q T	300	322	385	247	152,5	292	176,5	140	145	5,5	174,5
LINEO - 315	373	446	420	307	224	398	309	110	255	8,5	259,5





CE



Motor Insulation Class	Motor Protection Class	Body Material	Impeller Material	Working Temperature	Standards
F - Class	IP 44	Galvanized Sheet Metal	Galvanized Sheet Metal	-20 - + 50 °C	IEC-60335-2-80, ISO 1940-1

LINEO QUIET

SOUND-PROOF MIXED FLOW EXTRACTOR FANS

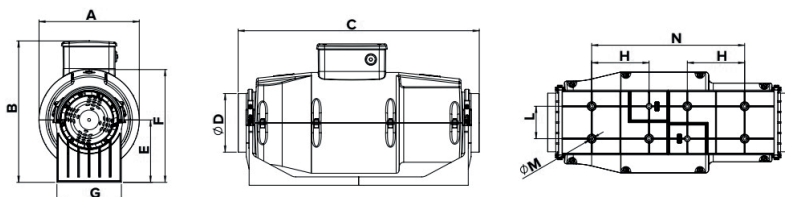
Lineo Quite Sound-proof mixed flow extractor fans. The LINEO QUIET range products are fitted with traditional AC motors, 2 or 3 speed depending on the model.

Technical Information

Model Type	Max m ³ /h	W	rpm d/d	Hz	Voltage
LINEO - 100 QUIET	150	11	1455	50/60	220
LINEO - 100 T QUIET	200	24	1880		240
	260	27	2260		
LINEO - 125 QUIET	190	11	1125	50/60	220
LINEO - 125 T QUIET	250	24	1475		240
	320	27	1880		
LINEO - 150 QUIET	255	24	1040	50/60	220
LINEO - 150 T QUIET	350	37	1430		240
	510	50	2030		
LINEO - 160 QUIET	255	24	1040	50/60	220
LINEO - 160 T QUIET	350	37	1430		240
	510	50	2030		
LINEO - 200 QUIET	805	50	1880	50/60	220
LINEO - 200 T QUIET	1045	80	2380		240
	1160	90	2690		
LINEO - 250 QUIET	960	95	1640	50/60	220
	1340	125	2320		240
	1550	150	2750		
LINEO - 315 QUIET	2070	215	1930	50/60	220
	2530	270	2360		240
	2890	360	2705		

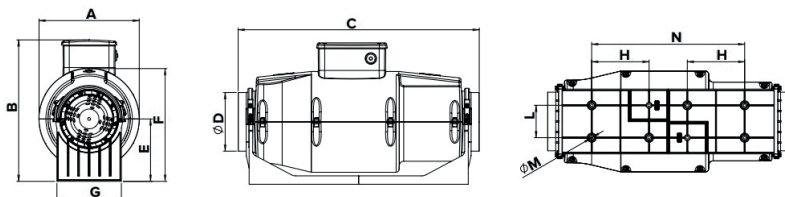
VERSION A

LINEO 100 QUIET - LINEO 100 T QUIET - LINEO 125 QUIET - LINEO 125 T QUIET
LINEO 150 QUIET - LINEO 150 T QUIET - LINEO 160 QUIET - LINEO 160 T QUIET



VERSION B

LINEO 200 QUIET - LINEO 200 T QUIET - LINEO 250 QUIET - LINEO 315 QUIET



Model Type	A	B	C	D	E	F	G	H	L	M	N	VERSION
LINEO - 100 QUIET	210	294,5	639	97	130	235	135	120	67,5	5,5	320	A
LINEO - 100 T QUIET												
LINEO - 125 QUIET	210	294,6	504,5	122	130	235	135	120	67,5	5,5	320	A
LINEO - 125 T QUIET												
LINEO - 150 QUIET	232	320,5	685	147	145	261,5	170	132	85	5,5	360	A
LINEO - 150 T QUIET												
LINEO - 160 QUIET	232	320,5	570	156,5	145	261,5	170	135	85	5,5	360	A
LINEO - 160 T QUIET												
LINEO - 200 QUIET	322,5	417,5	625,5	194,5	195	363,5	190	120	155	5,5	510	B
LINEO - 200 T QUIET												
LINEO - 250 QUIET	318	412	751,5	243	189,5	363,5	200	70	170	6,5	604,5	B
LINEO - 315 QUIET												



CE



Motor Insulation Class	Motor Protection Class	Body Material	Impeller Material	Working Temperature	Standards
F - Class	IP 44	Galvanized Sheet Metal	Galvanized Sheet Metal	-20 - + 50 °C	IEC-60335-2-80, ISO 1940-1

LINEO QUIET ES

SOUND-PROOF ENERGY SAVING MIXED FLOW EXTRACTOR FANS

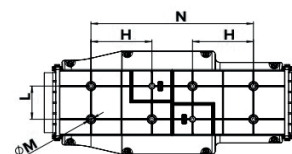
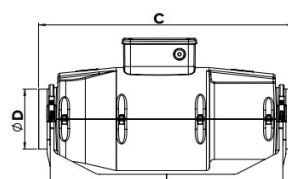
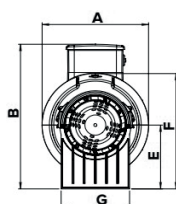
Lineo Quite ES serie Sound-proof energy saving mixed flow extractor fans use of electronically controlled 2 speed EC brushless (Low consumption) motors. Each speed can be set at installation. Alternatively the units can run at 1 speed only,adjustable by user through 0-10V signal.

Technical Information

Model Type	Max m ³ /h	W	rpm d/d	Hz	Voltage
LINEO - 100 QUIET	150	11	1455	50/60	220
LINEO - 100 T QUIET	200	24	1880		240
	260	27	2260		
LINEO - 125 QUIET	190	11	1125	50/60	220
LINEO - 125 T QUIET	250	24	1475		240
	320	27	1880		
LINEO - 150 QUIET	255	24	1040	50/60	220
LINEO - 150 T QUIET	350	37	1430		240
	510	50	2030		
LINEO - 160 QUIET	255	24	1040	50/60	220
LINEO - 160 T QUIET	350	37	1430		240
	510	50	2030		
LINEO - 200 QUIET	805	50	1880	50/60	220
LINEO - 200 T QUIET	1045	80	2380		240
	1160	90	2690		
LINEO - 250 QUIET	960	95	1640	50/60	220
	1340	125	2320		240
	1550	150	2750		
LINEO - 315 QUIET	2070	215	1930	50/60	220
	2530	270	2360		240
	2890	360	2705		

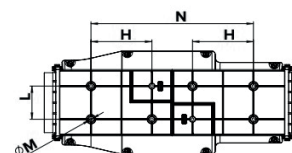
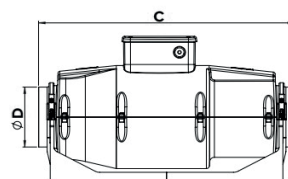
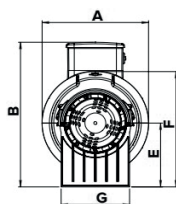
VERSION A

LINEO 100 QUIET - LINEO 100 T QUIET - LINEO 125 QUIET - LINEO 125 T QUIET
LINEO 150 QUIET - LINEO 150 T QUIET - LINEO 160 QUIET - LINEO 160 T QUIET



VERSION B

LINEO 200 QUIET - LINEO 200 T QUIET - LINEO 250 QUIET - LINEO 315 QUIET



Model Type	A	B	C	D	E	F	G	H	L	M	N	VERSION
LINEO - 100 QUIET	210	294,5	639	97	130	235	135	120	67,5	5,5	320	A
LINEO - 100 T QUIET												
LINEO - 125 QUIET	210	294,6	504,5	122	130	235	135	120	67,5	5,5	320	A
LINEO - 125 T QUIET												
LINEO - 150 QUIET	232	320,5	685	147	145	261,5	170	132	85	5,5	360	A
LINEO - 150 T QUIET												
LINEO - 160 QUIET	232	320,5	570	156,5	145	261,5	170	135	85	5,5	360	A
LINEO - 160 T QUIET												
LINEO - 200 QUIET	322,5	417,5	625,5	194,5	195	363,5	190	120	155	5,5	510	B
LINEO - 200 T QUIET												
LINEO - 250 QUIET	318	412	751,5	243	189,5	363,5	200	70	170	6,5	604,5	B
LINEO - 250 T QUIET												
LINEO - 315 QUIET	415,5	496,5	940	307	244	441	309	110	255	8,5	780	B