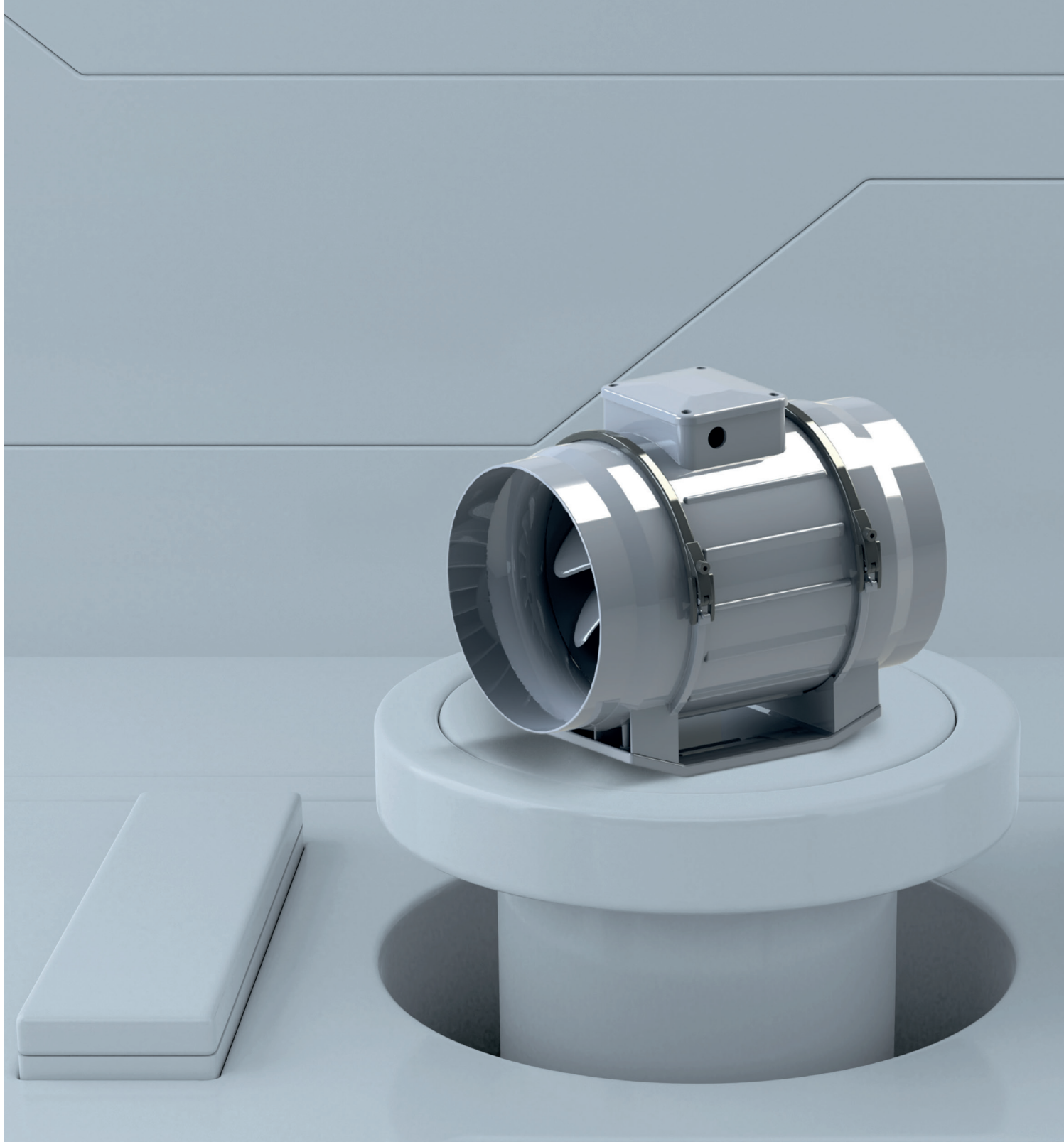


# IN LINE DUCT FANS



## In Line Duct Fans

MFF

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MFF-FR

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MID

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MID-R

---

MID-RX

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MID-A

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MAD

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LINEO

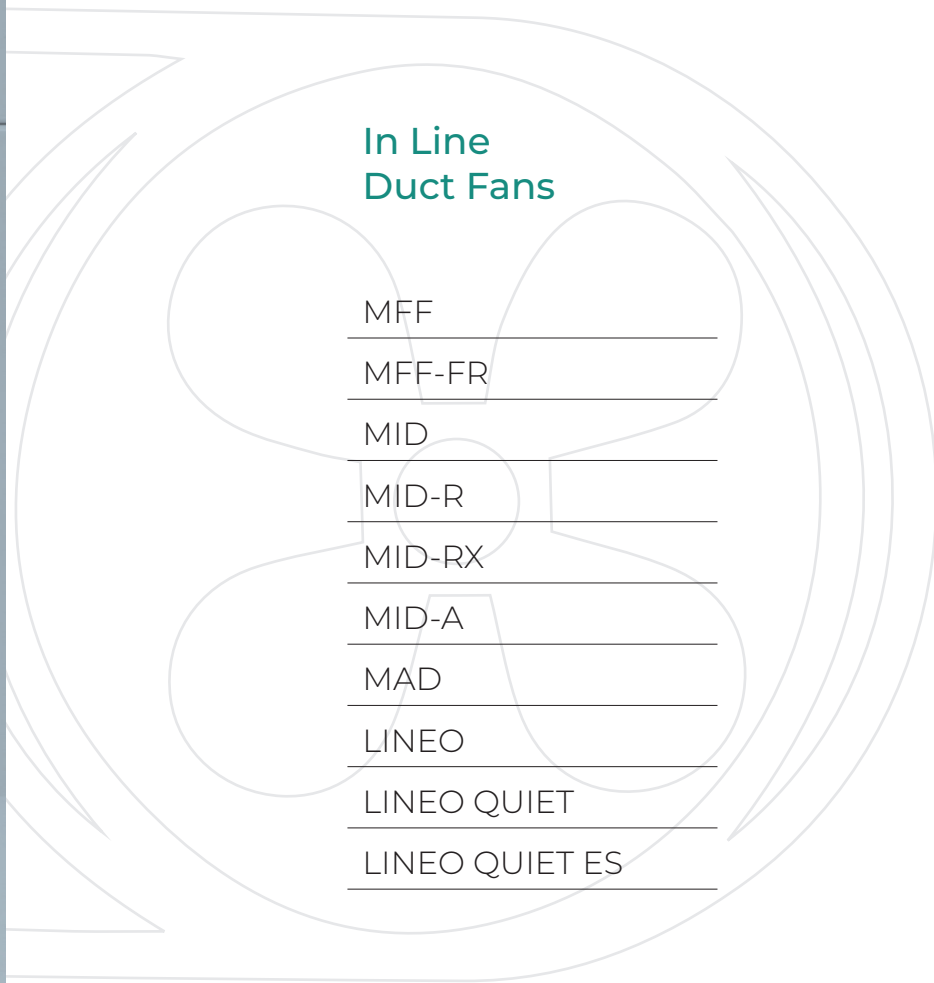
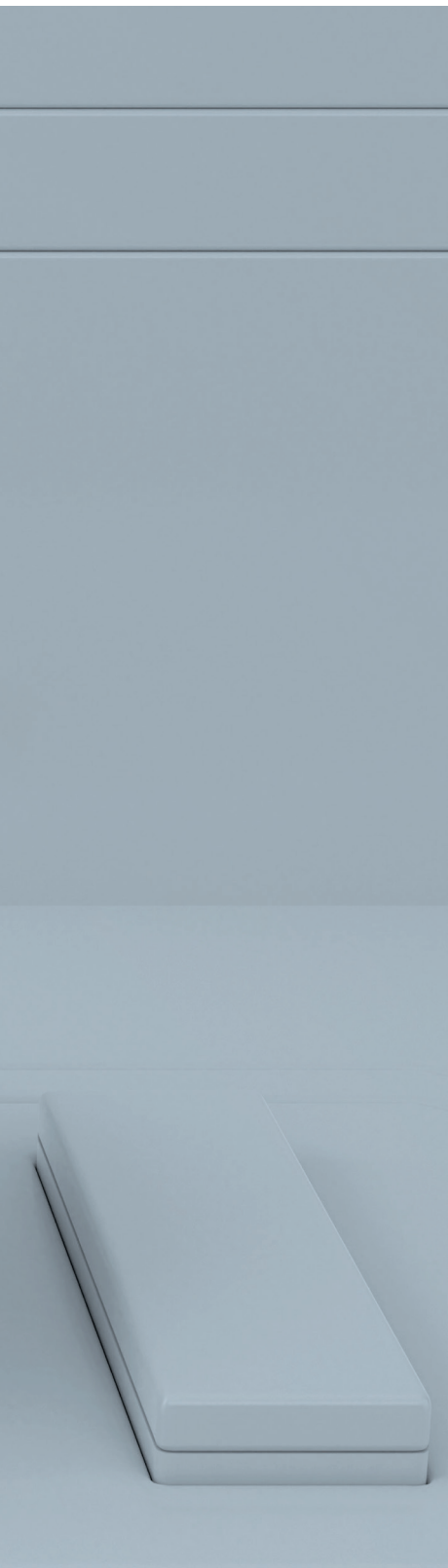
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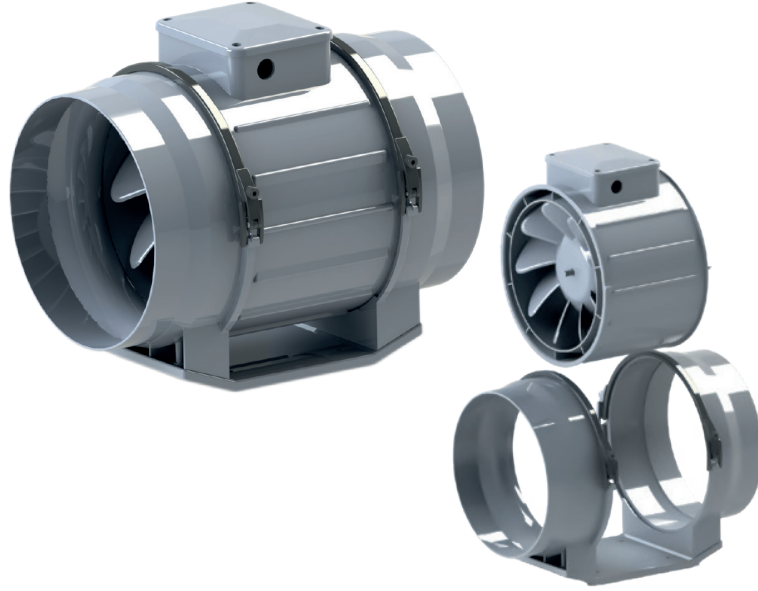
LINEO QUIET

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LINEO QUIET ES

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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

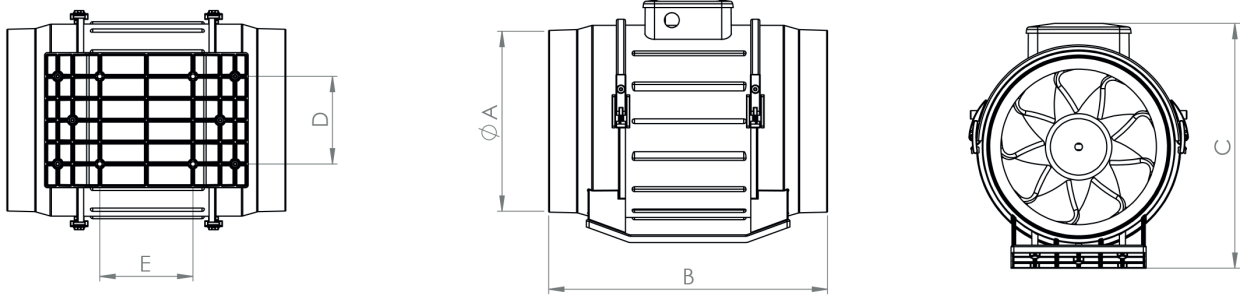
## MFF

### MIXED FLOW PLASTIC IN-LINE FAN

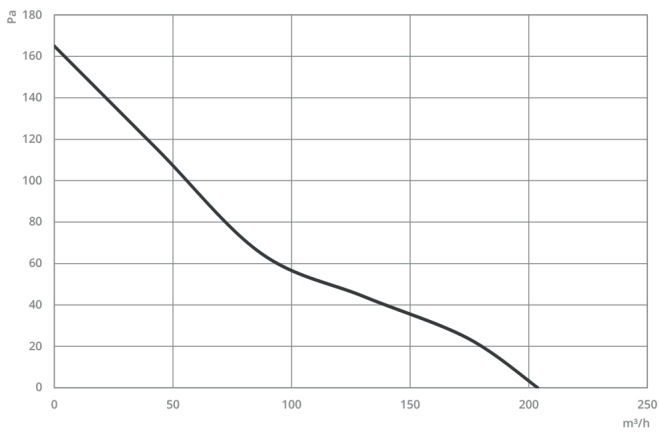
MMF serie mixed flow fans can be used in your small duct systems easily. If preferred, V0 Insulation Class is also available in our MMF-FR series.

## Technical Information

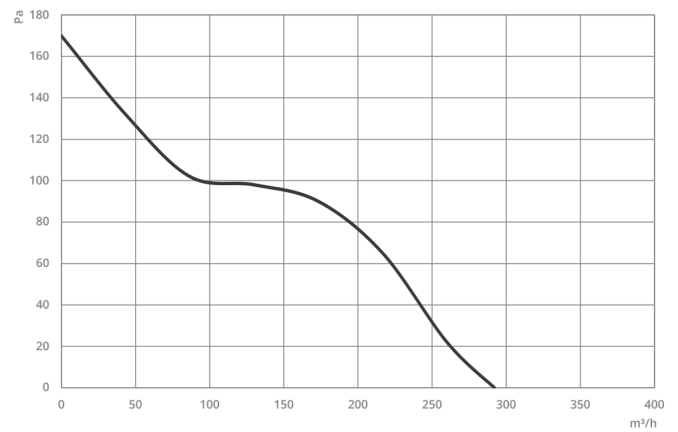
Model Type	Max m <sup>3</sup> /h	W	rpm d/d	Hz	Voltage	Sound dB
MMF - 100	203	54	2198	50	230	31
MMF - 125	298	56	2190	50	230	32
MMF - 150	444	75	2110	50	230	33
MMF - 160	490	75	2137	50	230	33



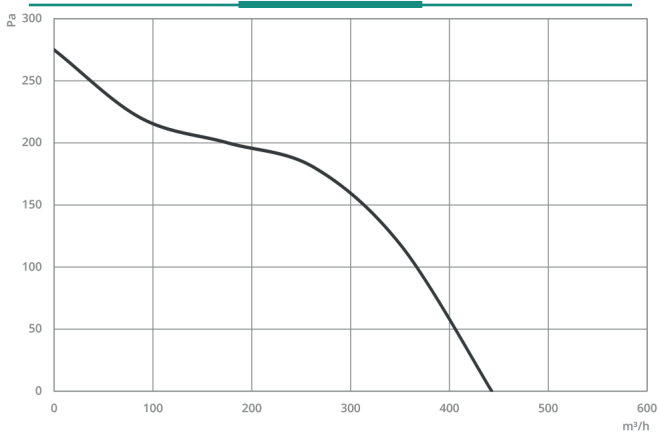
Model Type	A	B	C	D	E
MMF - 100	96	306,5	215	60	80
MMF - 125	121	260	215	60	80
MMF - 150	146	290,5	242	60	80
MMF - 160	156	271	242	60	80



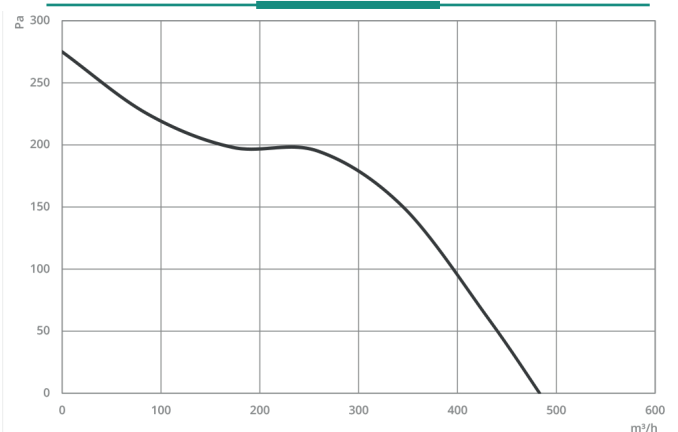
MMF - 100



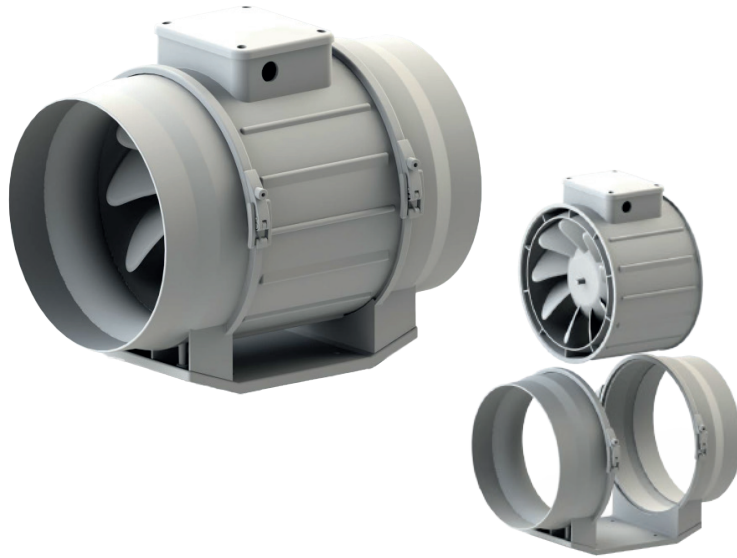
MMF - 125



MMF - 150



MMF - 160



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

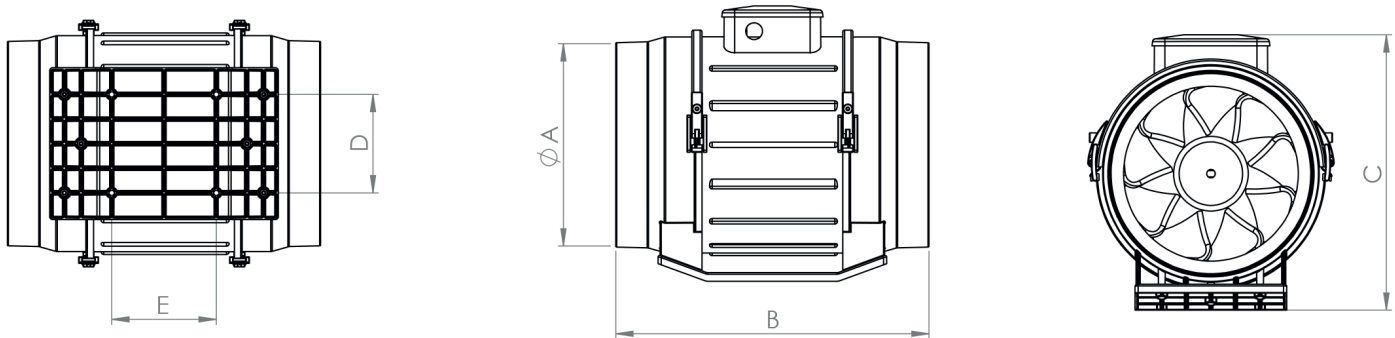
# MFF-FR

## 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

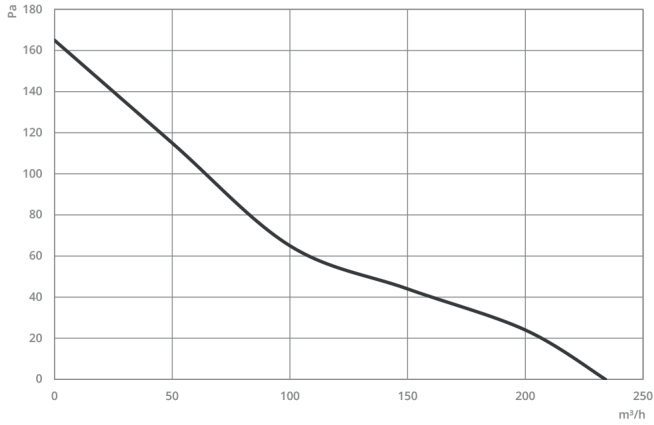
Model Type	Max m <sup>3</sup> /h	W	rpm d/d	Hz	Voltage	Sound dB
MMF - FR - 100	234	54	2460	50	230	31
MMF - FR - 125	337	56	2560	50	230	32
MMF - FR - 150	504	75	2490	50	230	33
MMF - FR - 160	560	75	2490	50	230	33
MMF - FR - 200	1012	111	2410	50	230	36
MMF - FR - 250	1350	280	2460	50	230	38
MMF - FR - 315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



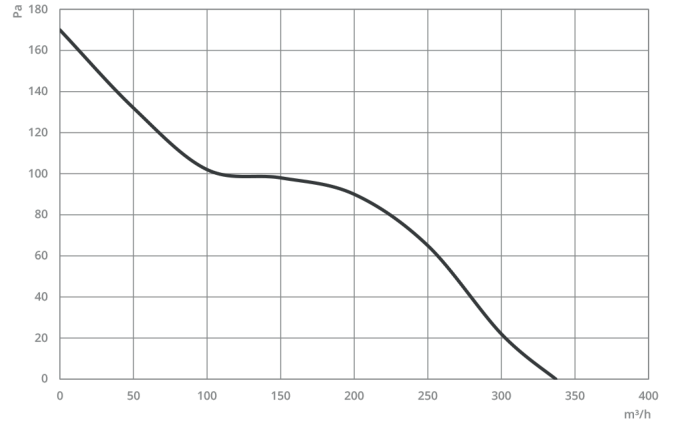
Model Type	A	B	C	D	E
MMF - FR - 100	96	306,5	215	60	80
MMF - FR - 125	121	260	215	60	80
MMF - FR - 150	146	290,5	242	60	80
MMF - FR - 160	156	271	242	60	80
MMF - FR - 200	191	300	263	94	100
MMF - FR - 250	246	393	325	110	140
MMF - FR - 315	310	450	420	175	180



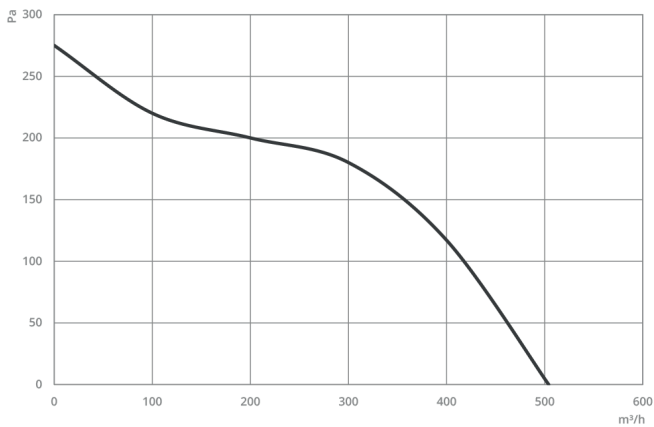
## Pressure Curves



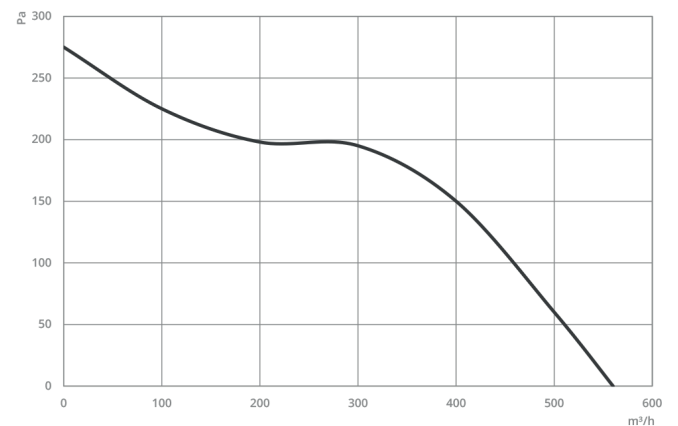
MMF - FR - 100



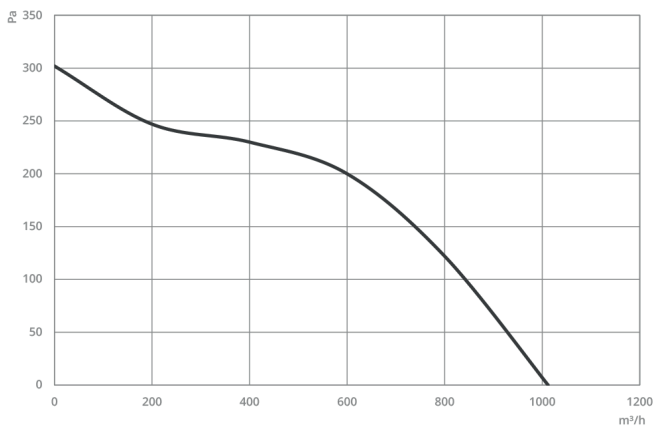
MMF - FR - 125



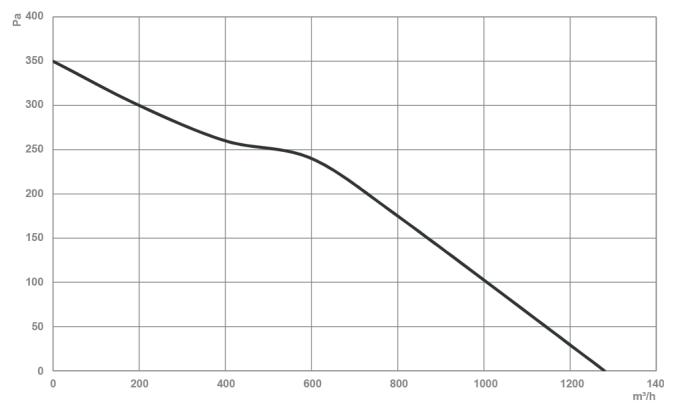
MMF - FR - 150



MMF - FR - 160

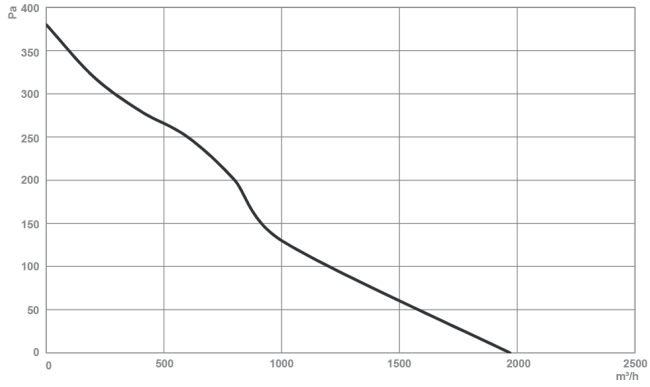


MMF - FR - 200



MMF - FR - 250

## Pressure Curves



MMF - FR - 315







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

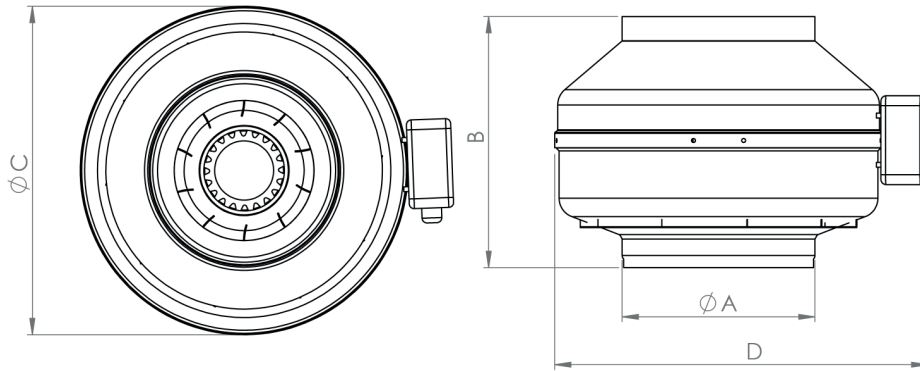
## MID

### 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

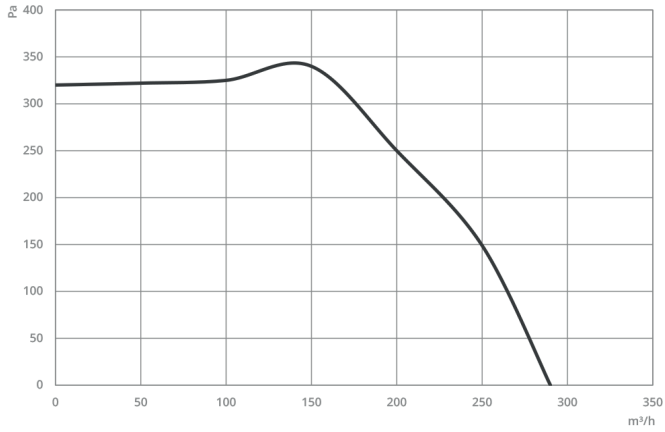
Model Type	Max m <sup>3</sup> /h	W	rpm d/d	Hz	Voltage	Sound dB
MID - 100	290	80	2600	50	230	45
MID - 125	410	80	2600	50	230	45
MID - 150	700	85	2600	50	230	46
MID - 160	710	85	2600	50	230	48
MID - 200	1000	122	2675	50	230	48
MID - 250	1120	145	2685	50	230	50
MID - 315	1750	210	2615	50	230	53
MID - 355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



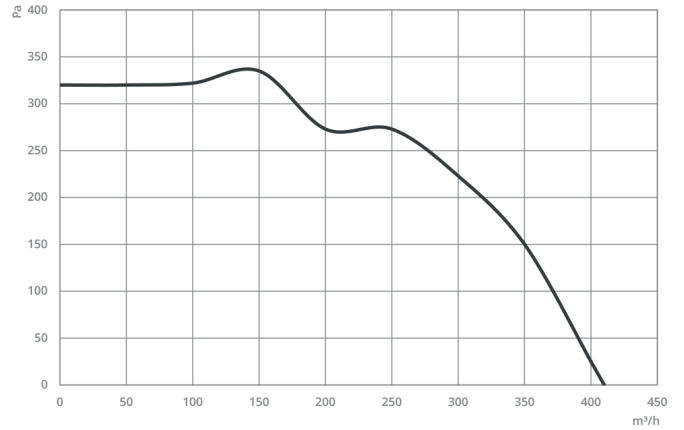
Model Type	A	B	C	D
MID - 100	100	208	246	290
MID - 125	100	208	246	290
MID - 150	150	196	270	320
MID - 160	160	196	270	320
MID - 200	200	255	333	380
MID - 250	250	234	331	380
MID - 315	315	283	401	450
MID - 355	355	225	401	450



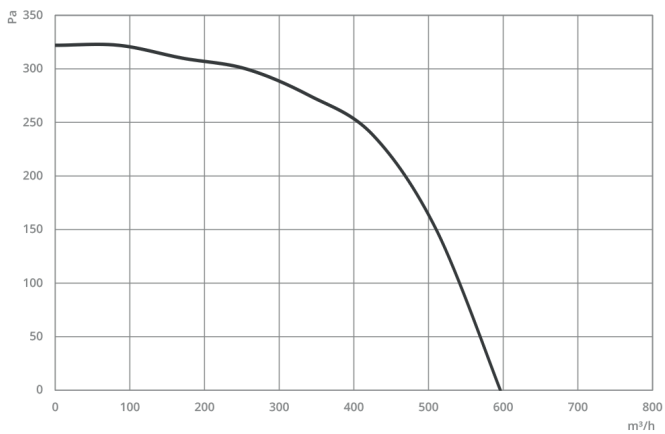
## Pressure Curves



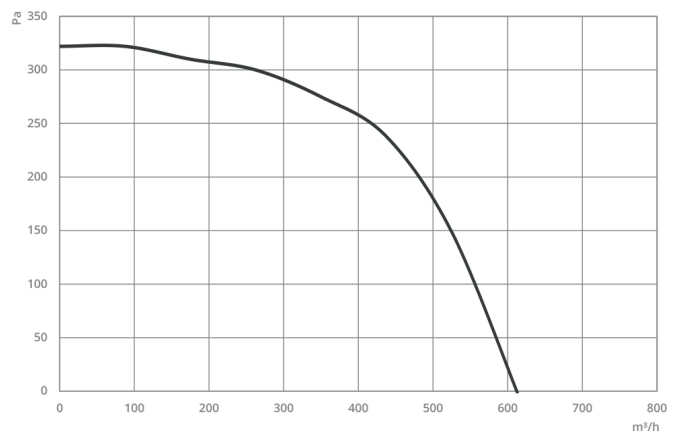
MID - 100



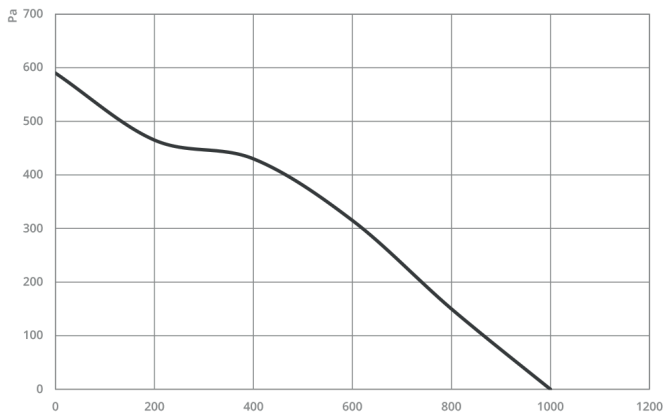
MID - 125



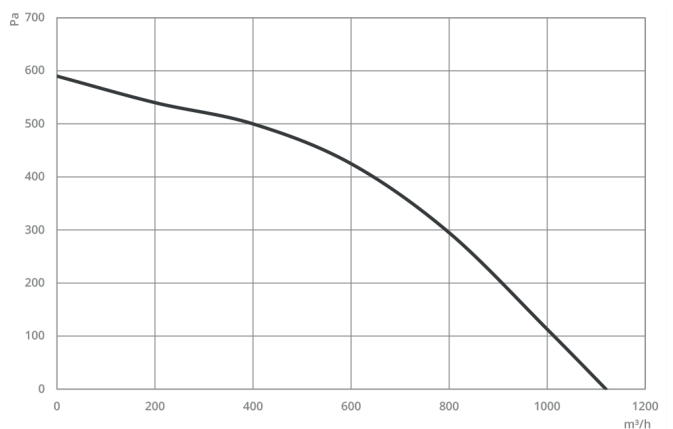
MID - 150



MID - 160

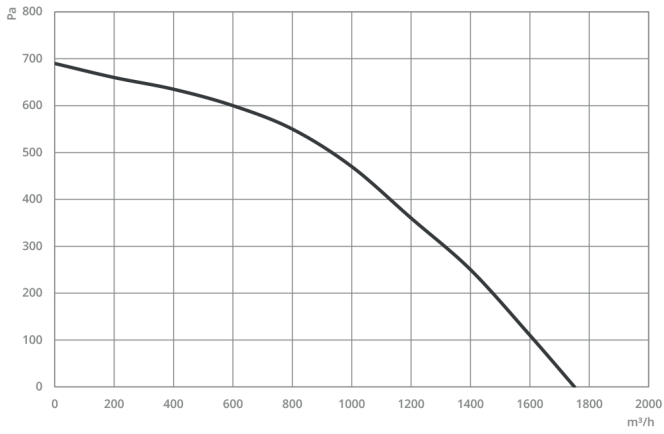


MID - 200

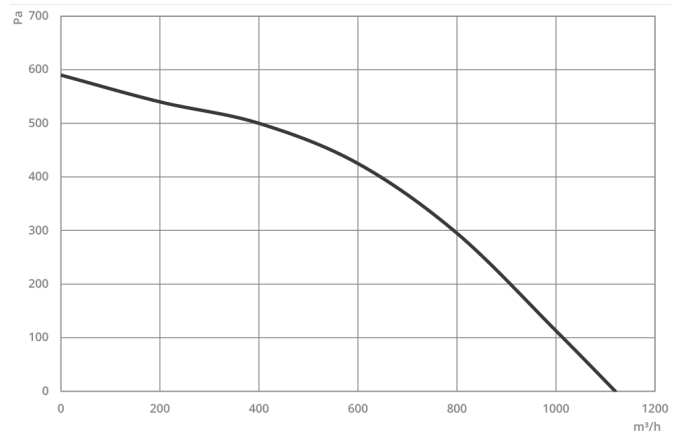


MID - 250

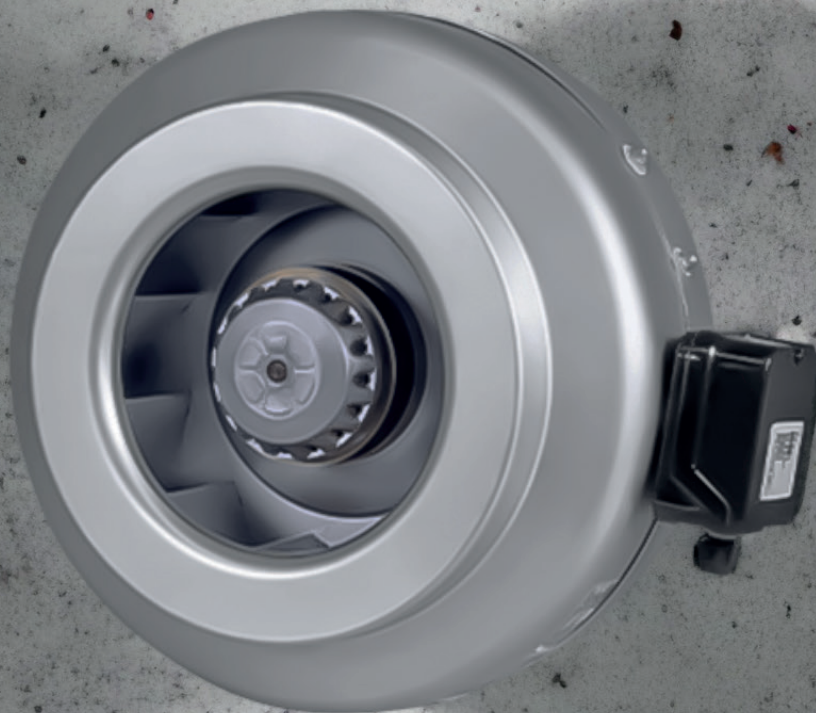
## Pressure Curves



MID - 315



MID - 355





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

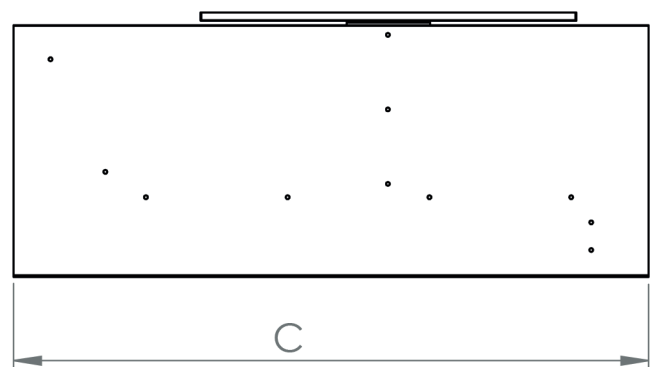
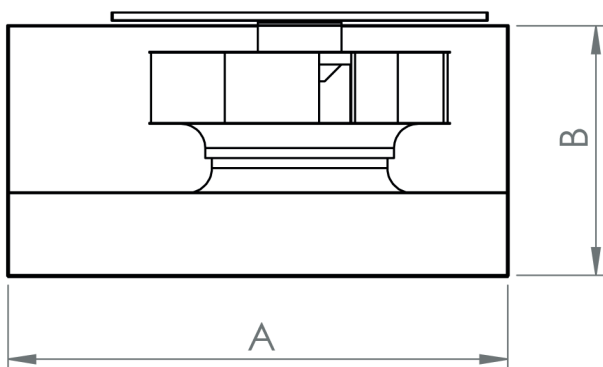
## MID-R

### 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

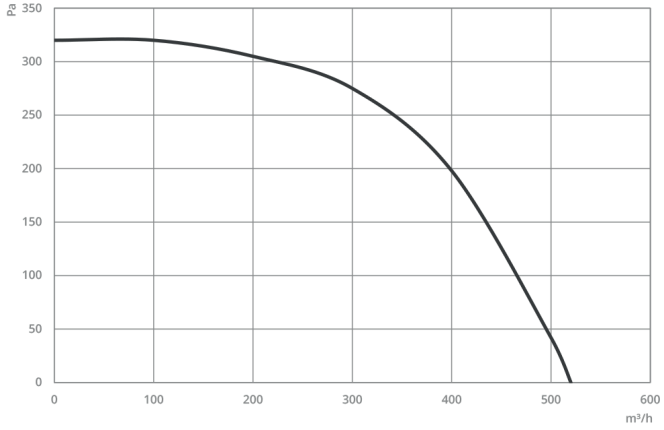
Model Type	Max m <sup>3</sup> /h	W	rpm d/d	Hz	Voltage	Sound dB
MID - R - 30 - 15	520	90	2600	50	230	51
MID - R - 40 - 20 A	950	104	2675	50	230	55
MID - R - 40 - 20 B	1150	130	2685	50	230	59
MID - R - 50 - 25	1600	180	2615	50	230	61
MID - R - 60 - 30	2350	147	1360	50	230	57
MID - R - 60 - 35	3400	380	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



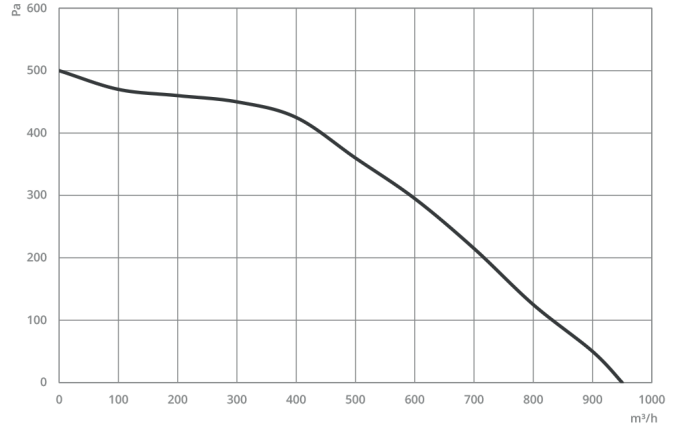
Model Type	A	B	C
MID - R - 30 - 15	300	150	400
MID - R - 40 - 20 A	400	200	500
MID - R - 40 - 20 B	400	200	500
MID - R - 50 - 25	500	250	565
MID - R - 60 - 30	600	300	760
MID - R - 60 - 35	600	350	765
MID - R - 70 - 40	700	400	790
MID - R - 80 - 50	800	500	900
MID - R - 100 - 50	1000	500	1050



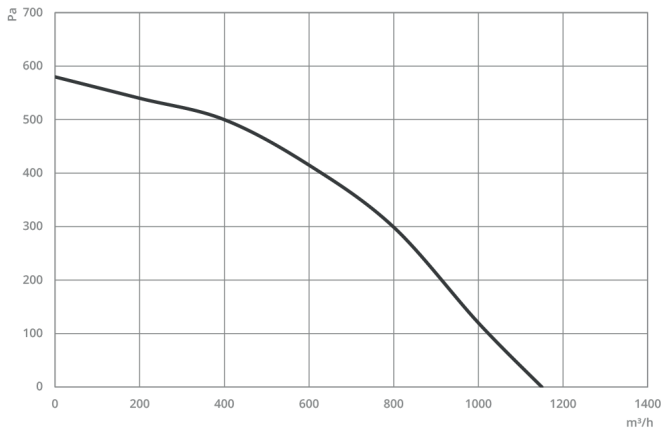
## Pressure Curves



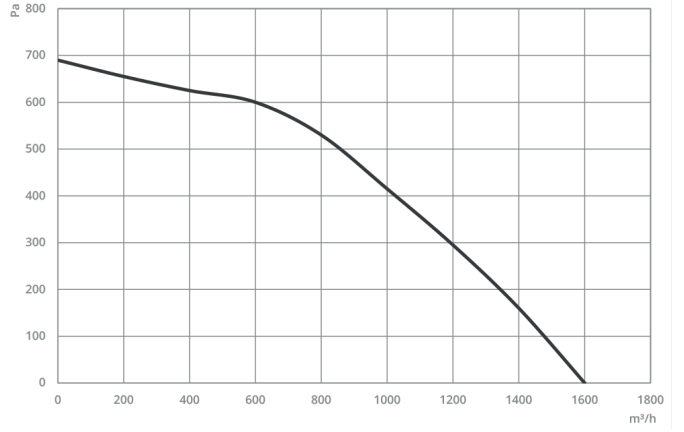
MID - R - 30 - 15



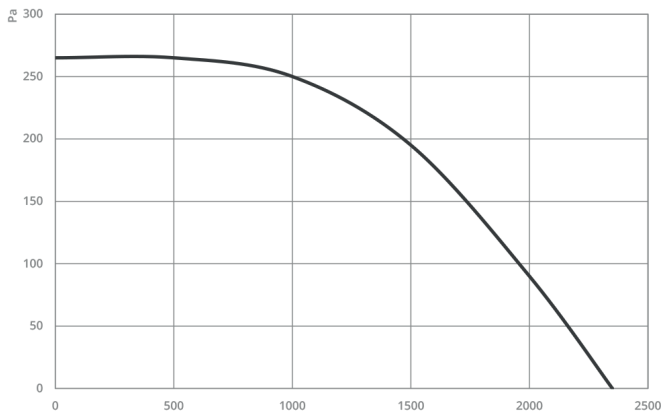
MID - R - 40 - 20 A



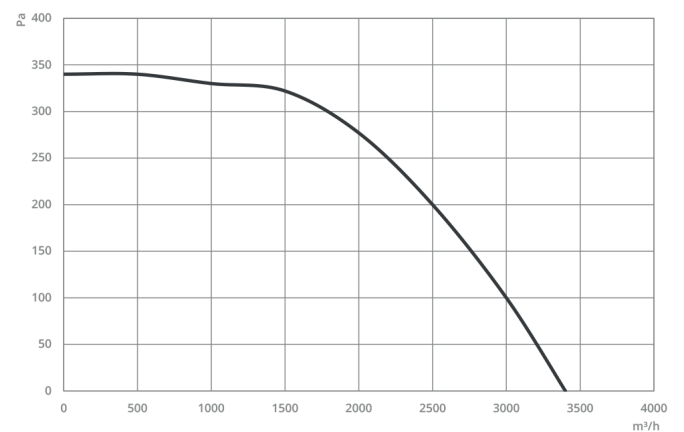
MID - R - 40 - 20 B



MID - R - 50 - 25

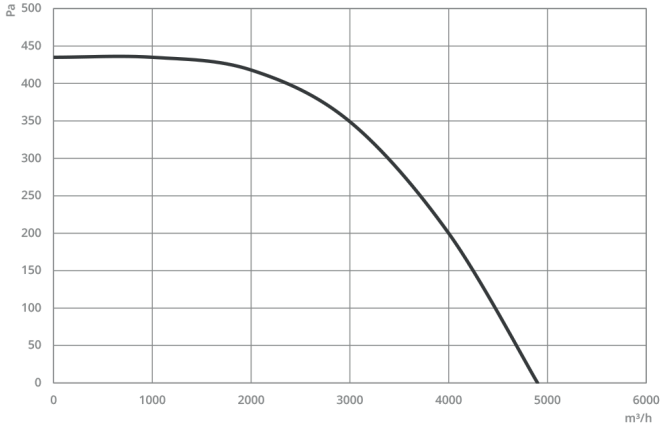


MID - R - 60 - 30

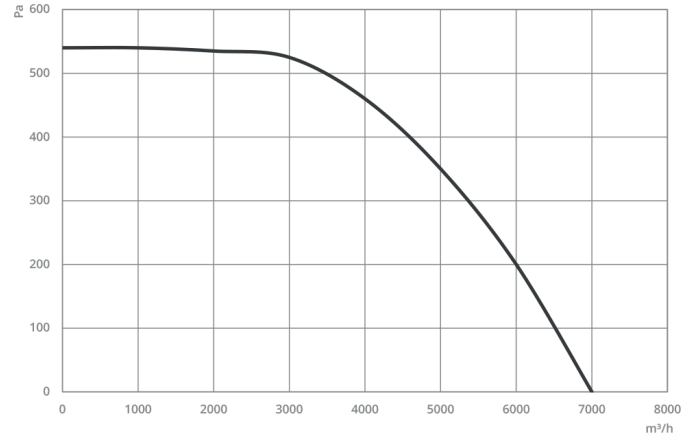


MID - R - 60 - 35

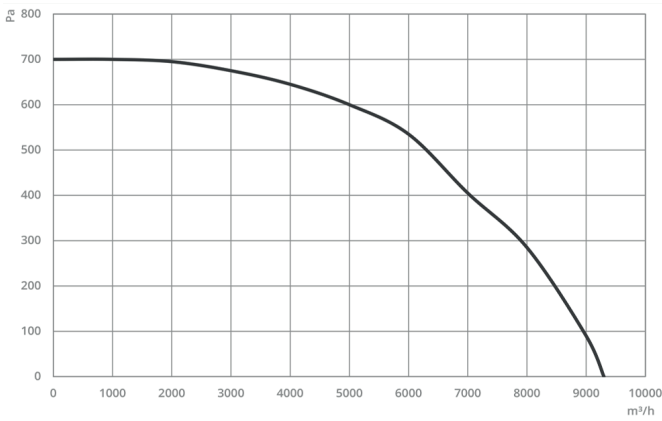
## Pressure Curves



MID - R - 70 - 40



MID - R - 80 - 50

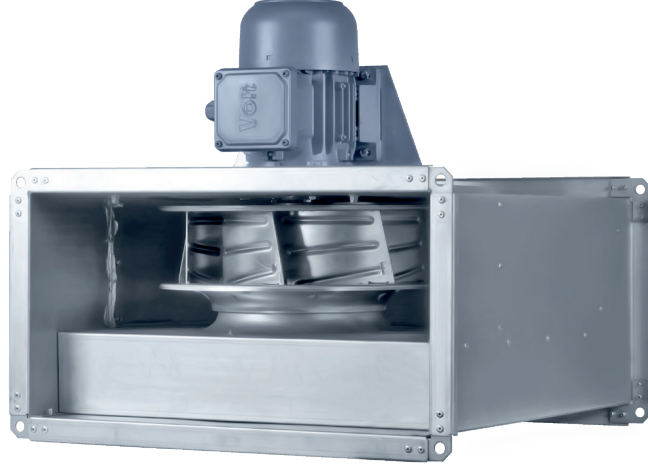


MID - R - 100 - 50





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

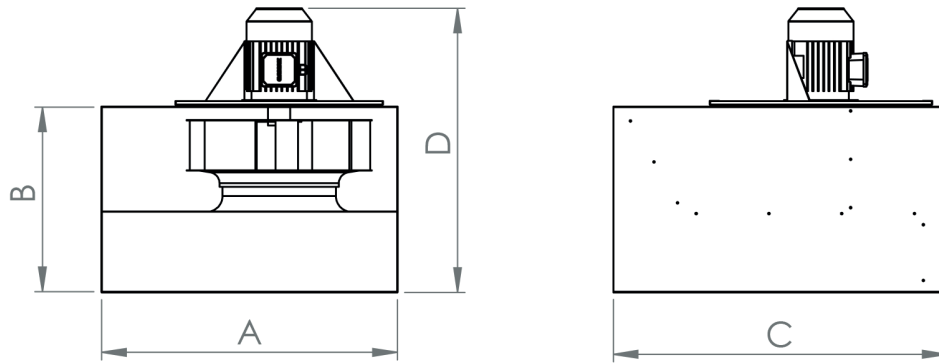
## MID-RX

### 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

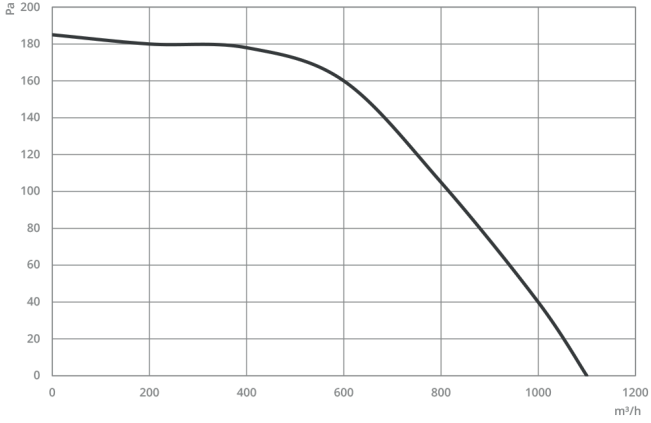
Model Type	Max m <sup>3</sup> /h	kW	rpm d/d	Hz	Voltage	Sound dB
MID - RX - 280	1100	0,18	1450	50	380	58
MID - RX - 315	1600	0,25	1469	50	380	58
MID - RX - 355	2300	0,37	1471	50	380	60
MID - RX - 400	3300	0,55	1478	50	380	61
MID - RX - 450	5000	0,75	1454	50	380	63
MID - RX - 500	7000	1,10	1462	50	380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



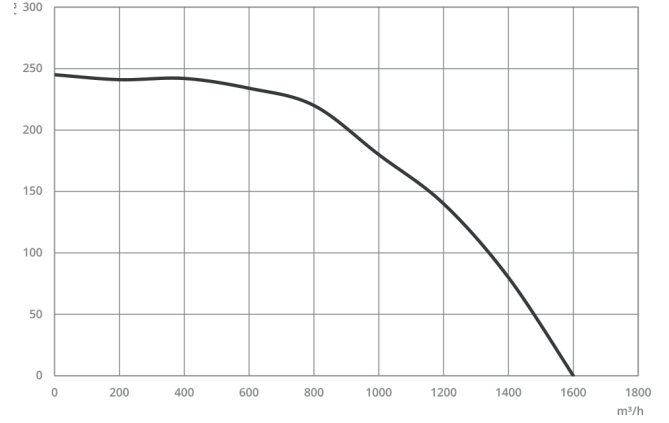
Model Type	A	B	C	D
MID - RX - 280	500	250	565	450
MID - RX - 315	500	250	565	476
MID - RX - 355	600	300	760	526
MID - RX - 400	600	350	750	590
MID - RX - 450	700	400	790	641
MID - RX - 500	800	500	900	765
MID - RX - 560	1000	500	1050	790



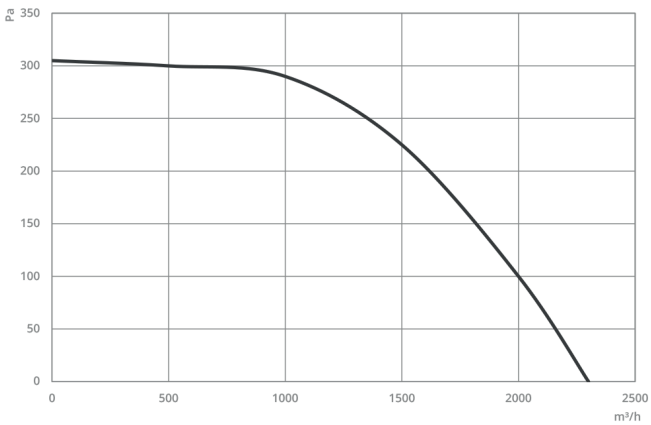
## Pressure Curves



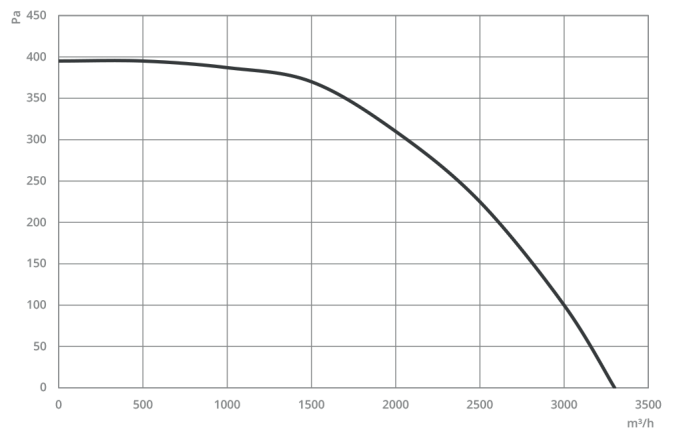
MID - RX - 280



MID - RX - 315

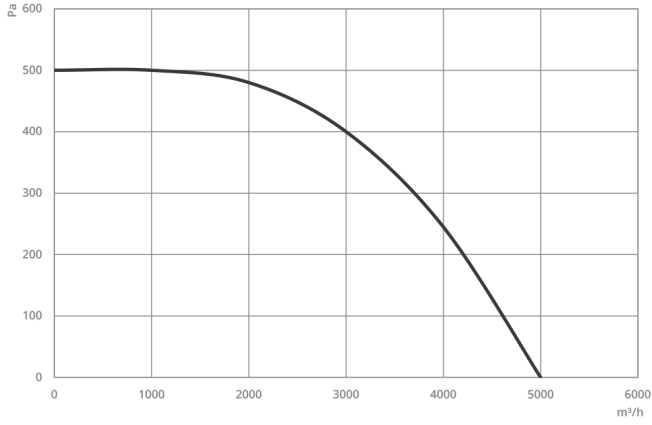


MID - RX - 355

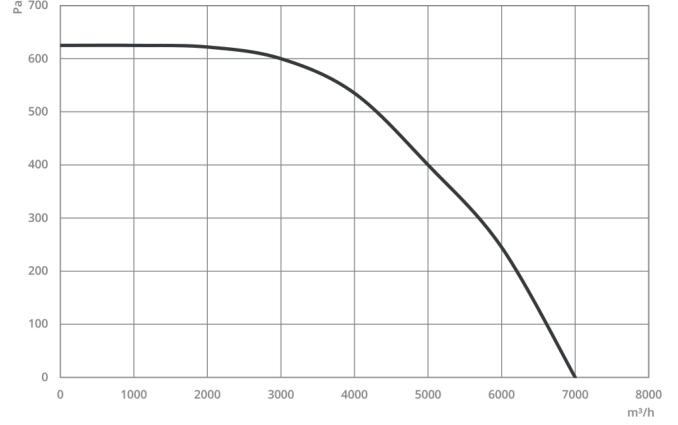


MID - RX - 400

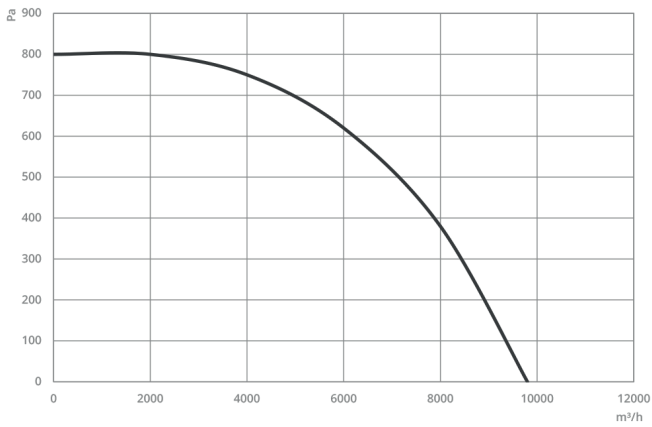
## Pressure Curves



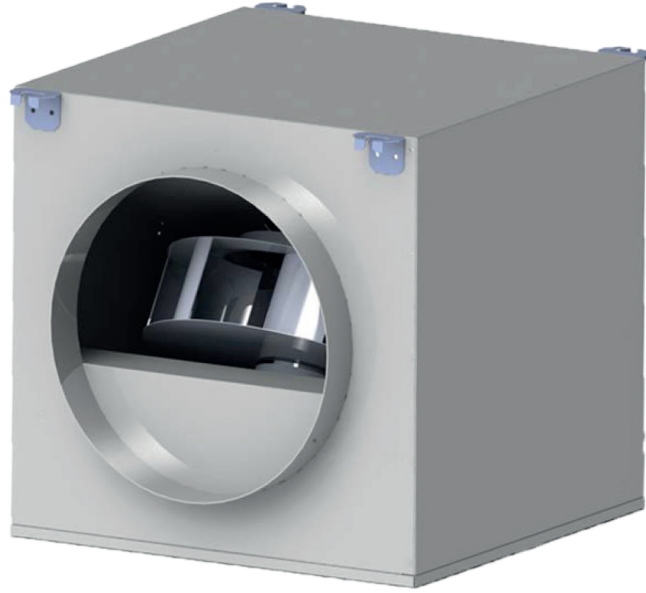
MID - RX - 450



MID - RX - 500



MID - RX - 560



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

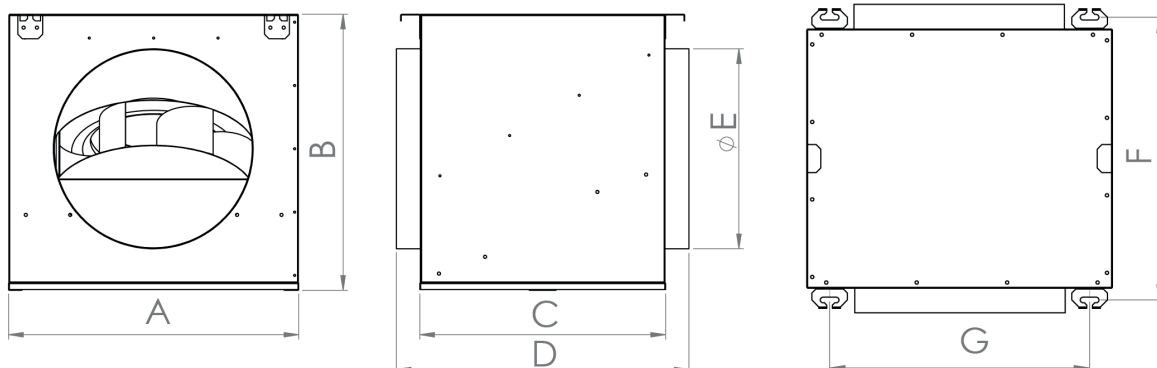
## MID-A

### 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

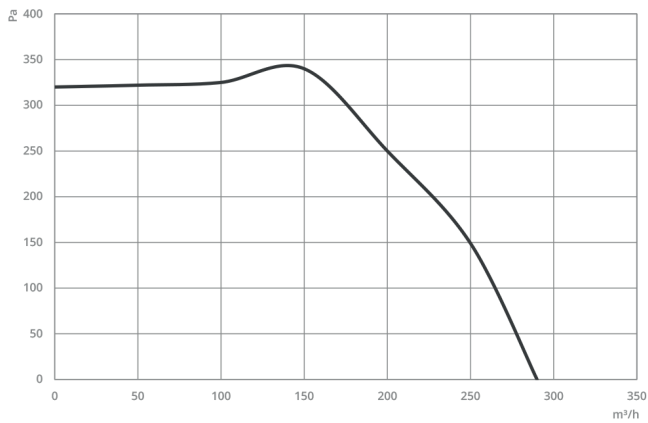
Model Type	Max m <sup>3</sup> /h	W	rpm d/d	Hz	Voltage	Sound dB
MID - A - 100	290	80	2600	50	230	44
MID - A - 125	410	80	2600	50	230	46
MID - A - 150	700	85	2600	50	230	50
MID - A - 160	710	85	2600	50	230	52
MID - A - 200	1000	122	2675	50	230	55
MID - A - 250	1120	145	2685	50	230	62
MID - A - 315	1750	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



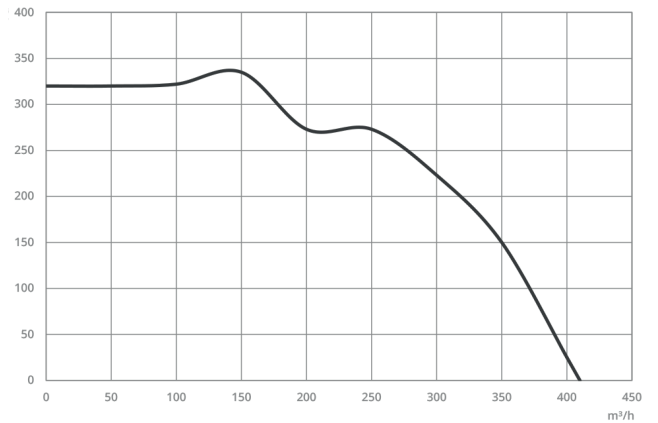
Model Type	A	B	C	D	E	F	G
MID - A - 100	342	342	304	410	100	304	246
MID - A - 125	342	342	304	410	125	304	246
MID - A - 150	342	361	304	410	150	304	246
MID - A - 160	342	381	304	410	160	304	246
MID - A - 200	392	381	354	460	200	354	296
MID - A - 250	472	422	354	460	250	354	382
MID - A - 315	502	446	404	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



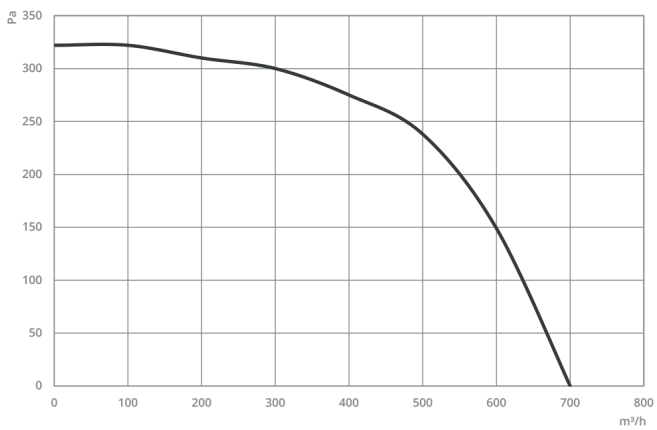
## Pressure Curves



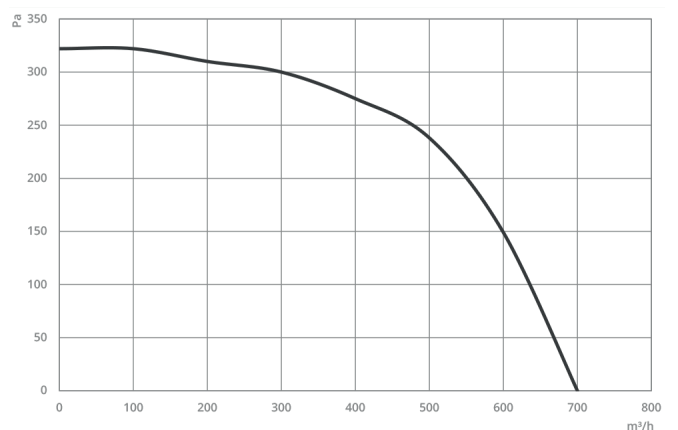
MID - A - 100



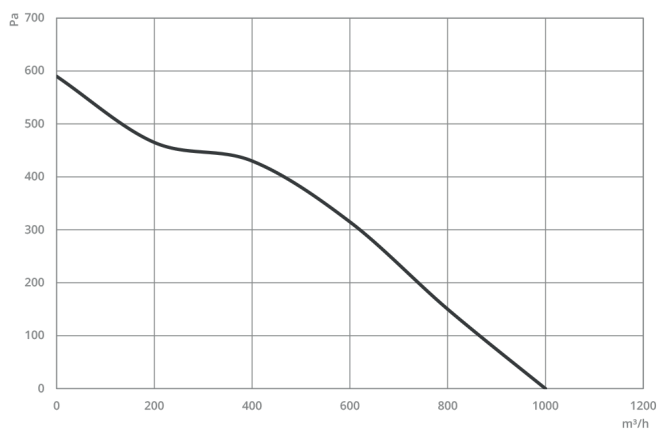
MID - A - 125



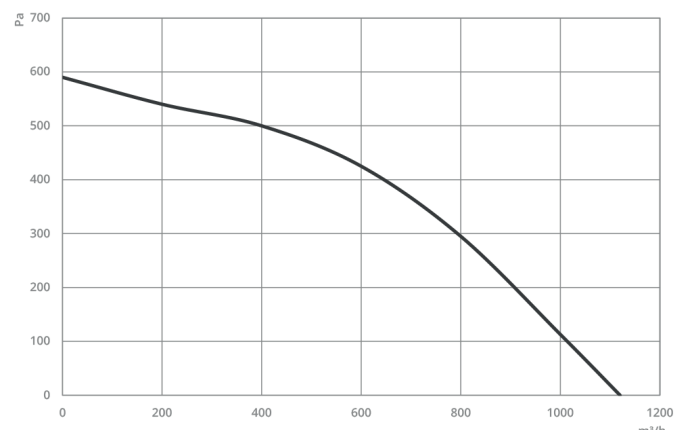
MID - A - 150



MID - A - 160

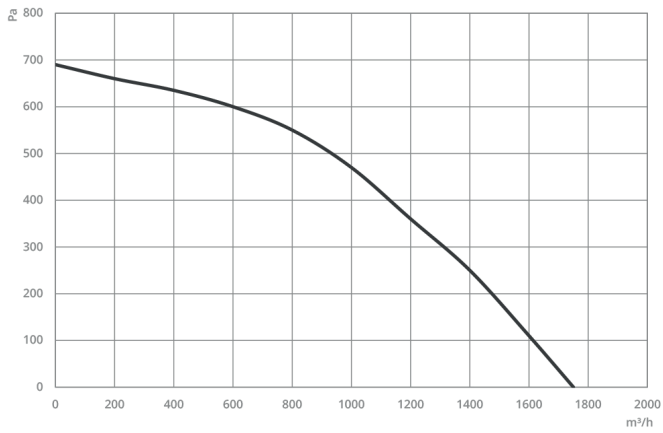


MID - A - 200

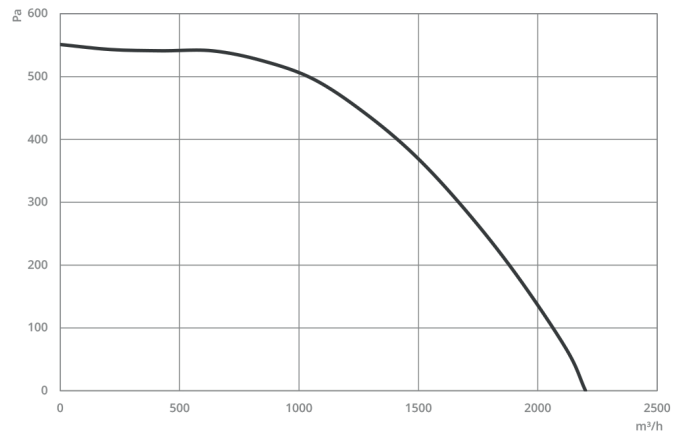


MID - A - 250

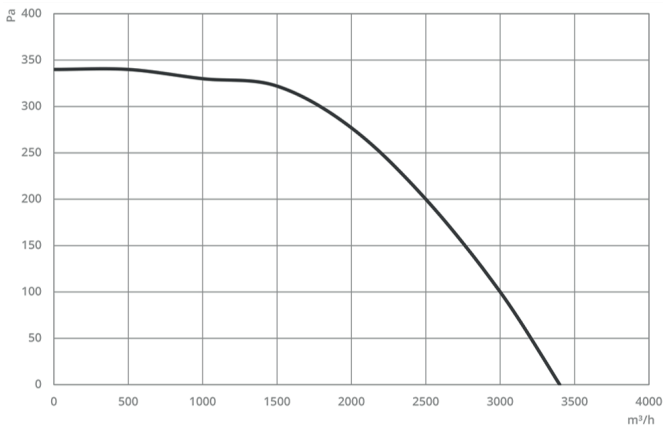
## Pressure Curves



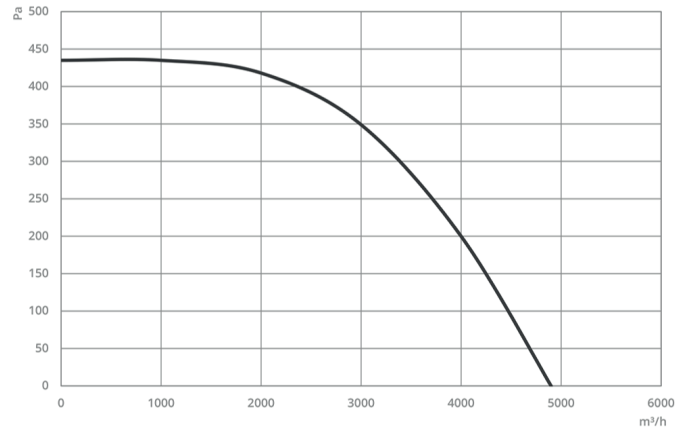
MID - A - 315



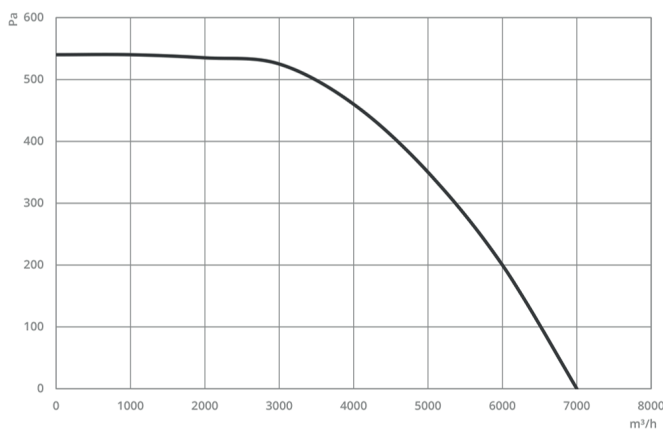
MID - A - 355



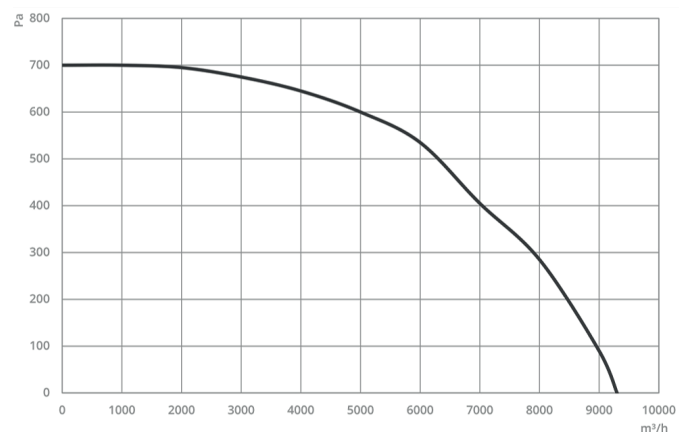
MID - A - 400



MID - A - 450



MID - A - 500



MID - A - 560





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

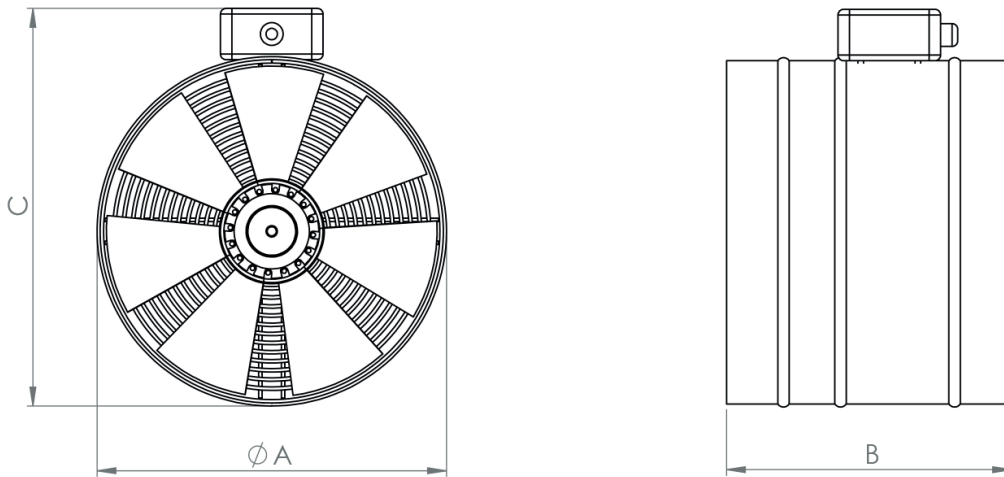
# MAD

## 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 <sup>3</sup> /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



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).

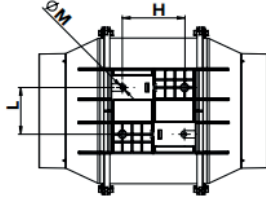
## Technical Information

Model Type	Max m <sup>3</sup> /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

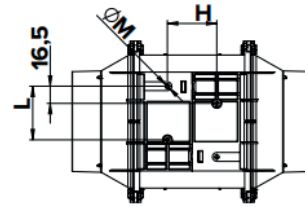
**VERSION A**

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



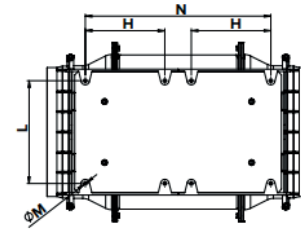
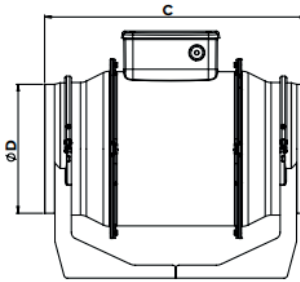
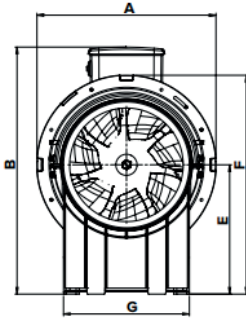
**VERSION B**

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



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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

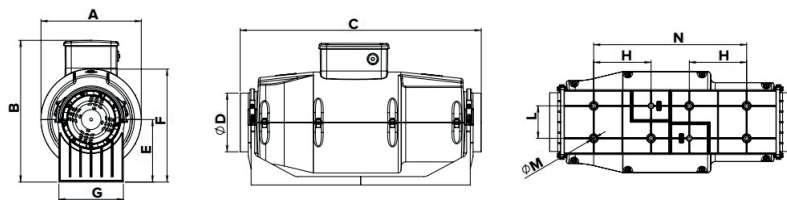
Lineo Quite Sound-proof mixed flow extractor fans. The LINEO QUIET range products are fitted with traditional AC motors, 2 or 3 speed depending on the model.

## Technical Information

Model Type	Max m <sup>3</sup> /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		

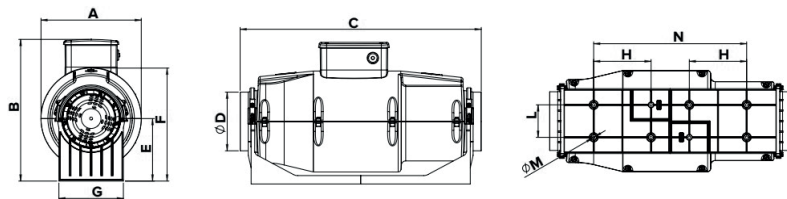
### VERSION A

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





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

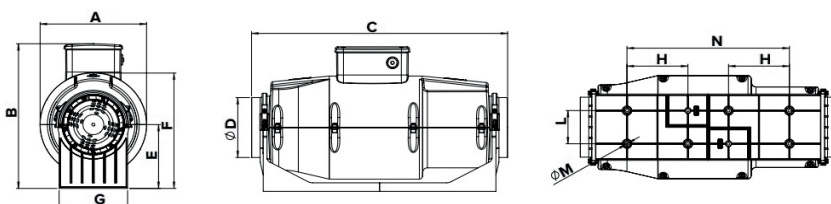
Lineo Quite ES serie Sound-proof energy saving mixed flow extractor fans use of electronically controlled 2 speed EC brushless (Low consumption) motors. Each speed can be set at installation. Alternatively the units can run at 1 speed only,adjustable by user through 0-10V signal.

## Technical Information

Model Type	Max m <sup>3</sup> /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		

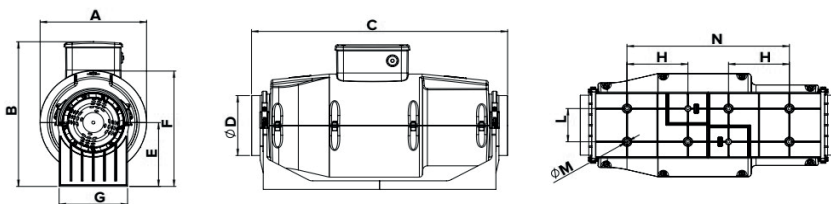
### VERSION A

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