



Range of low profile in-line mixed-flow fans for circular ducts. The range comprises seven diameters and covers a flow range from 210 to 1840 m<sup>3</sup>/h. The unique design of the support bracket allows the motor and impeller assembly to be fitted or removed without dismantling the adjacent ducting. Low profile compact casing manufactured in tough reinforced plastic. Optimised design of the impeller, guide vane and outlet diffuser, to increase performance and lower the sound level. Airtight construction with double-injection sealing between the main body and the support bracket to avoid air leaks. Rubber gaskets on the flanges to improve airtightness with the ducts. Silent-block between the motor and the guide vane to reduce the motor's vibrations and lower the sound level of the installation, even in terms of speed regulation. Designed to modulate flow rate and to adapt to the conditions and requirements of different installations.

**AC MOTOR AND INTEGRATED CONTROL**

Electronic controls integrated into the terminal box, allowing various operation modes:

- With 1-speed AC motor.
- Built-in speed regulator.
- Timer.
- 0-10V analogue input.



**INTEGRATED CONTROL ELECTRONICS**

**SPEED CONTROL**

**TD EVO flow control adjusted to the desired operation point**

Operates at a speed pre-determined and pre-set with the integrated potentiometer.

**TD EVO flow control set to the desired operation point by the user**

Controlled by REB CVF or REB ECOWATT to switch the fan on/off and to control the speed.

**MIN-MAX**

**TD EVO runs continuously at a flow rate set to the desired operation point, with the option to increase to the maximum flow rate**

Operating at a pre-determined speed, pre-set with the internal potentiometer and increasing to maximum speed (BOOST) with an external switch (AIRSENS sensor, presence detector, programmable clock).

**TIMER**

**TD EVO operates continuously at a set flow rate and at a slow speed with external detection increasing it to maximum speed and maintaining it with a timer**

Operates at a pre-determined speed, pre-set with the built-in potentiometer and increases to maximum speed (BOOST) through external detection (AIRSENS sensor, presence detector, thermostat) with a timer that can be adjusted to determine when it returns to a slower speed.

**ANALOGUE INPUT**

**TD EVO works with a flow rate proportional to an analogue signal supplied by an external probe**

**Proportional mode**

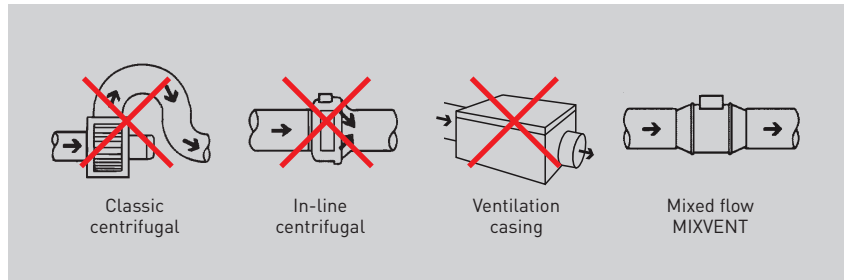
Operating at a speed proportional to the 0-10V analogue signal from an external probe (AIRSENS probe).

**Constant pressure mode - constant flow**

Runs at a speed proportional to the 0-10V analogue signal from a TDP-PI pressure sensor to maintain a constant pressure or flow rate\* in the installation.

(\* With additional accessories)

**VERY LOW PROFILE**

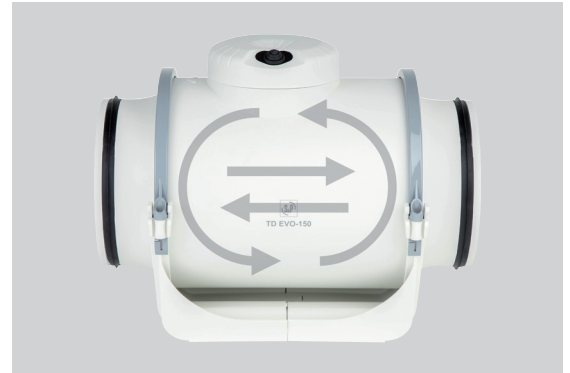


The low profile of the TD-EVO fans makes them the most effective solution for installations where the space of installation is limited such as false ceilings.

**EASY INSTALLATION AND MAINTENANCE**



Articulated fixing clamps with the possibility of mounting them from one side or the other, with conical profile for better airtightness with the main fan body and fixing by screws.



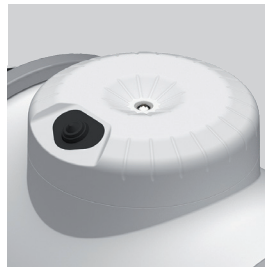
To reverse the direction of the airflow simply return the main fan body without having to disassemble the support foot. The rotation of the main fan body also allows to position the terminal box to allow the best accessibility.



Circular duct connection with integrated rubber seals to allow airtight installation with duct system.



Pre-assembly of the main fan body on the support foot to ease handling / orientation of the product leaving the hands free to the installer.

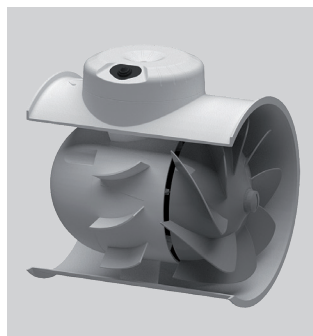


Large size terminal box, closed by a single screw.

**HIGH PERFORMANCES**



**Silent-block**  
 Silent-block between the motor and the support to reduce motor vibrations and lower the sound level of the fan.



**Guide vane - outlet fairing**  
 Optimised guide vane with outlet fairing to increase performance, efficiency and lower sound levels.

**EASY MAINTENANCE**



The unique design of the support bracket allows the motor and impeller assembly to be fitted or removed.

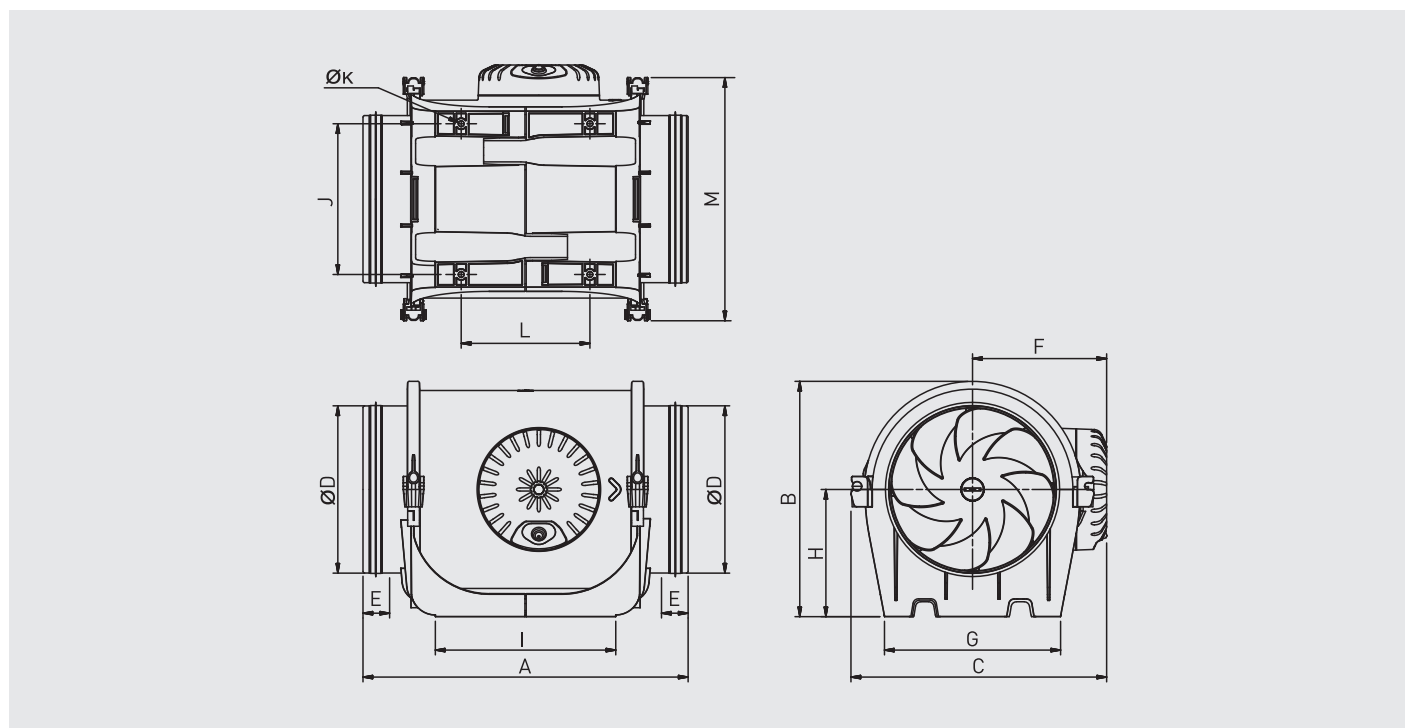
### TECHNICAL CHARACTERISTICS

It is essential to check that the electrical characteristics (voltage, current, frequency, etc.) of the motor which appear on the motor plaque are compatible with those of the installation.

TD EVO VAR Series	Speed (r.p.m.)	Maximum absorbed power (W)	Maximum absorbed current (A-230V)	Maximum air volume (m³/h)	Sound pressure level* (dB(A))			Max. Air temp. (°C @ 50Hz)	Weight (kg)
					Inlet	Radiated	Outlet		
TD EVO-100 VAR	2450	16	0,1	210	32	19	31	-20/+60	1,7
TD EVO-125 VAR	2320	29	0,1	310	36	26	37	-20/+60	1,8
TD EVO-150 VAR	2610	45	0,2	560	44	32	45	-20/+60	3
TD EVO-160 VAR	2600	45	0,2	560	44	32	45	-20/+60	3
TD EVO-200 VAR	2700	107	0,5	900	47	33	47	-20/+60	4,1
TD EVO-250 VAR	2710	181	0,8	1400	52	37	53	-20/+60	6,2
TD EVO-315 VAR	2640	273	1,1	1840	56	40	55	-20/+60	8,4

\* Sound pressure level measured at 3 m in free field condition, at the duty point 2 of the performance curve.

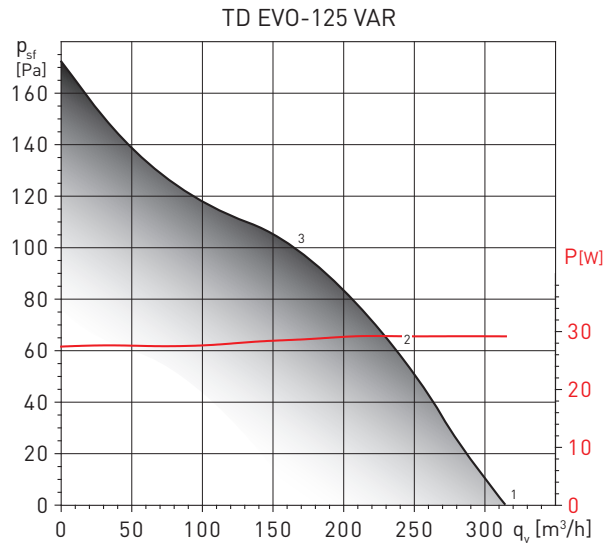
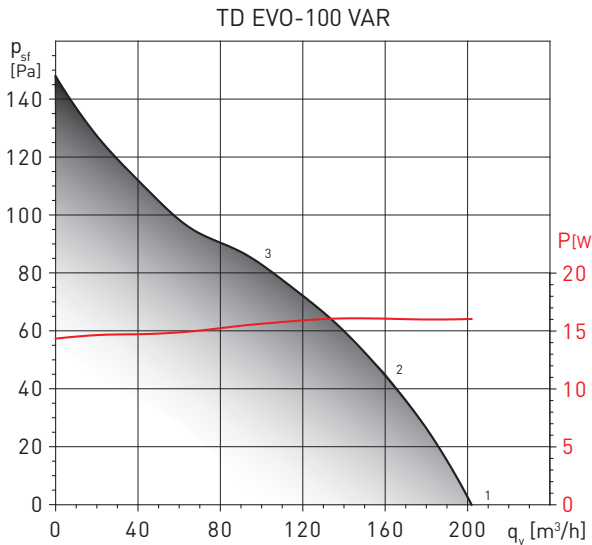
### DIMENSIONS (mm)



Model	A	B	C	ØD	E	F	G	H	I	J	ØK	L	M
TD EVO-100 VAR	302	181	201	97	28,5	107	133	100	168	100	4,5	89	189
TD EVO-125 VAR	302	191	221	122,5	28,5	117	132	100	172	104,5	4,5	91	209
TD EVO-150 VAR	326	221	240	147	25	126	165	120	170	142	5,5	121	229
TD EVO-160 VAR	306	221	240	157	25	126	165	120	170	142	5,5	121	229
TD EVO-200 VAR	346	238	263	197	28	137	190	124	211	161	5,5	161	253
TD EVO-250 VAR	390	289	306	247	40	159	230	155	231	194	7	182	295
TD EVO-315 VAR	485	353	371	312	40	192	278	188	317	242	7	206	358

**PERFORMANCE CURVES**

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99.

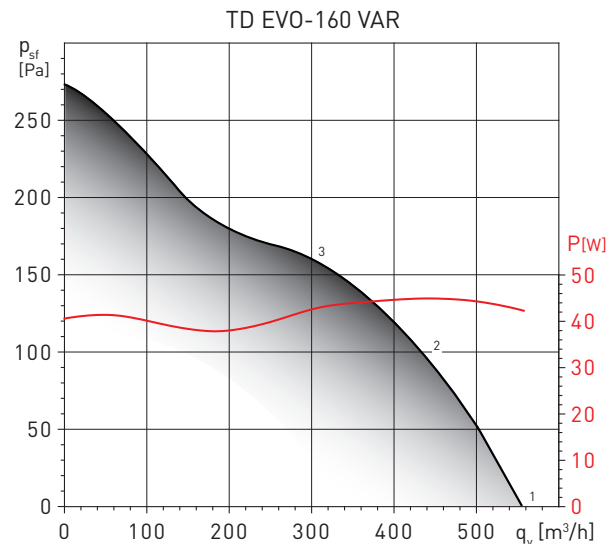
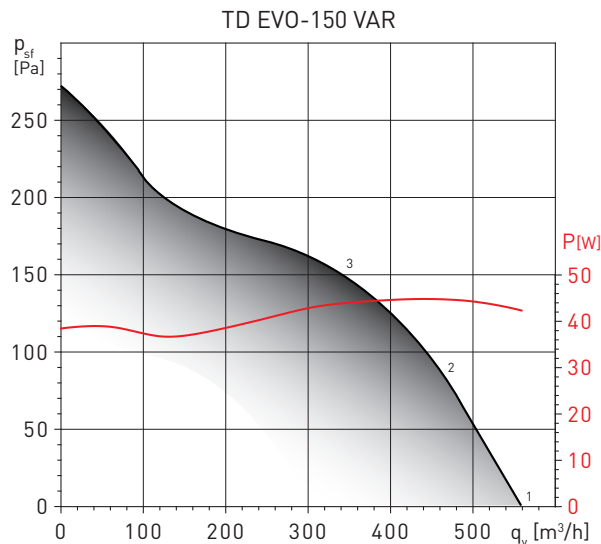


**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	23	25	42	47	49	45	38	27	52
	Outlet	21	26	51	45	49	46	38	25	54
	Break-Out	22	19	33	27	35	36	29	21	40
2	Inlet	24	25	40	47	48	44	39	27	52
	Outlet	23	27	44	45	48	44	38	25	52
	Break-Out	24	20	32	27	35	35	30	21	40
3	Inlet	24	35	45	48	48	42	36	27	53
	Outlet	23	38	48	45	47	42	36	25	53
	Break-Out	23	29	36	27	34	33	28	20	41

**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	24	29	47	53	53	51	45	32	58
	Outlet	24	32	51	54	55	50	44	32	59
	Break-Out	20	19	31	36	45	43	36	25	48
2	Inlet	24	27	47	52	52	48	43	30	56
	Outlet	24	30	48	51	55	47	40	27	57
	Break-Out	20	18	31	34	44	41	34	22	46
3	Inlet	26	34	47	52	53	51	45	45	57
	Outlet	27	37	49	53	55	51	45	42	59
	Break-Out	21	25	31	34	44	43	36	27	48



**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	34	36	51	59	62	63	58	46	67
	Outlet	35	35	52	60	62	62	59	47	67
	Break-Out	34	29	36	41	49	53	42	32	55
2	Inlet	35	36	51	56	60	61	54	42	65
	Outlet	32	36	51	57	62	60	54	42	65
	Break-Out	35	29	36	37	47	50	39	28	53
3	Inlet	37	40	55	60	60	60	53	42	65
	Outlet	34	38	51	61	63	58	52	42	66
	Break-Out	37	33	40	42	47	49	37	29	52

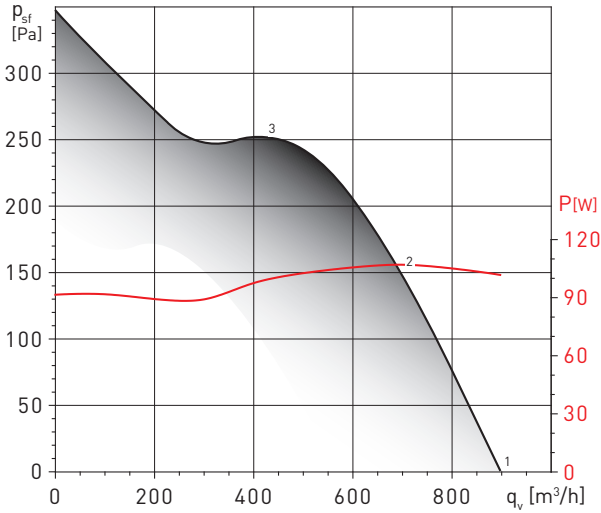
**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	29	35	51	57	62	64	59	46	67
	Outlet	29	36	51	60	64	63	60	47	68
	Break-Out	25	33	40	37	49	54	43	31	55
2	Inlet	29	35	50	54	60	60	54	42	64
	Outlet	28	36	49	57	63	60	54	42	66
	Break-Out	25	32	39	33	47	50	39	27	52
3	Inlet	31	39	57	59	60	61	54	42	66
	Outlet	30	38	56	62	64	59	52	41	67
	Break-Out	26	36	45	39	47	51	38	27	53

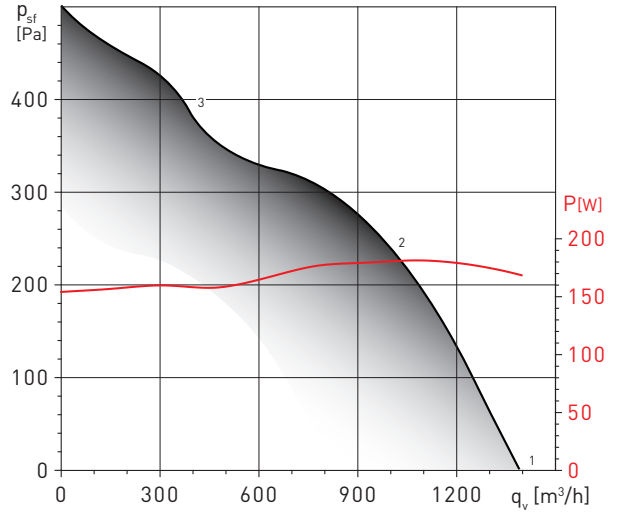
**PERFORMANCE CURVES**

- $q_v$ : Airflow in  $m^3/h$ .
- $p_{sf}$ : Static pressure in Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99.

TD EVO-200 VAR



TD EVO-250 VAR



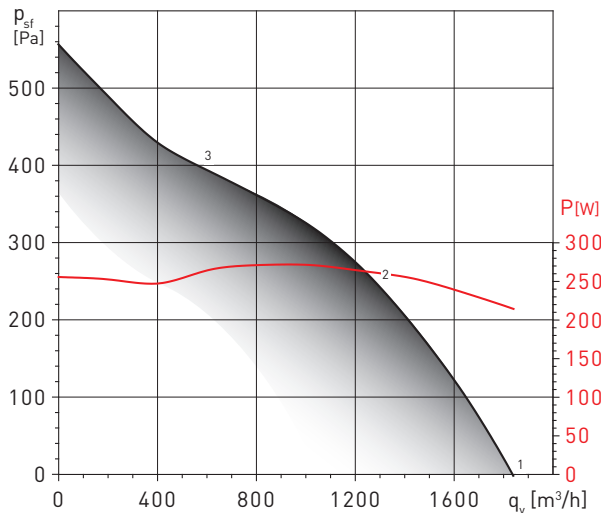
**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	32	43	54	61	64	66	63	51	70
	Outlet	30	44	52	61	64	67	64	51	71
	Break-Out	23	43	40	39	51	52	43	30	56
2	Inlet	30	40	51	59	63	63	59	51	68
	Outlet	29	41	55	61	63	63	58	47	68
	Break-Out	21	40	37	37	50	50	39	30	53
3	Inlet	37	53	60	63	64	63	58	50	69
	Outlet	36	60	59	65	63	62	55	48	70
	Break-Out	28	53	46	41	51	50	38	29	57

**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	37	47	57	65	71	72	67	59	76
	Outlet	36	49	62	66	72	73	68	59	77
	Break-Out	32	39	41	47	57	57	42	34	60
2	Inlet	32	45	56	63	69	68	61	55	73
	Outlet	35	46	59	65	70	69	61	52	73
	Break-Out	27	38	41	45	55	53	37	29	58
3	Inlet	39	57	65	67	69	67	62	56	74
	Outlet	41	59	67	67	68	66	60	54	74
	Break-Out	34	50	49	49	55	52	38	30	59

TD EVO-315 VAR



**Sound power level spectrums in dB(A)**

Working point		63	125	250	500	1000	2000	4000	8000	LwA
1	Inlet	34	57	63	68	72	68	68	55	76
	Outlet	34	55	60	71	74	69	68	56	77
	Break-Out	20	42	41	50	56	52	45	31	59
2	Inlet	33	64	66	70	72	70	65	57	77
	Outlet	35	52	64	67	72	69	62	55	75
	Break-Out	20	49	45	52	56	54	42	32	60
3	Inlet	46	62	72	72	73	71	64	57	78
	Outlet	51	65	69	70	71	71	62	55	77
	Break-Out	20	47	50	55	57	55	42	32	61

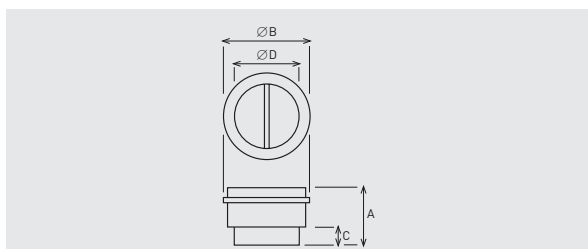


GENERAL INSTALLATION ACCESSORIES



**MCA**  
**Back-draft shutters** mounted at the outlet of the fans, to prevent external air entry and to limit heat leakage, when the fan are not in use.

Model	Type of TD EVO
MCA-250	TD EVO 100
MCA-350	TD EVO 125
MCA-500/150 S	TD EVO 150
MCA-500/160 S	TD EVO 160
MCA-800	TD EVO 200
MCA-1000	TD EVO 250
MCA-2000	TD EVO 315

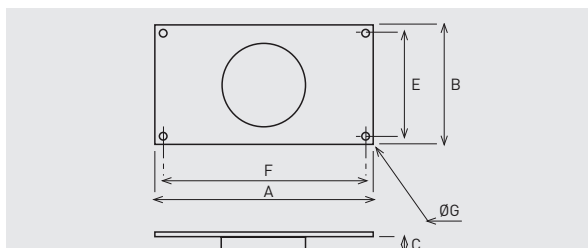


Model	A	Ø B	C	Ø D
MCA-250	107	109	31,5	94,5
MCA-350	107	136	31,5	119,5
MCA-500/150 S	121	163,5	35	147
MCA-500/160 S	121	173,5	35	157
MCA-800	131,5	214	35	197,5
MCA-1000	164	264,5	42	248
MCA-2000	205	330	50	312



**MAR**  
**Rectangular duct adapters** enable TD EVO to be connected to rectangular ducting.

Model	Type of TD EVO	Nominal dim. of ducting LxH
MAR-250	TD EVO 100	224x140
MAR-250-350 S	TD EVO 125	224x140
MAR-500 S	TD EVO 150	280x180
MAR-500/160	TD EVO 160	280x180
MAR-800-1000 S	TD EVO 200	315x200
MAR-1000	TD EVO 250	400x250
MAR-2000	TD EVO 315	500x315



Model	A	B	C	E	F	Ø G
MAR-250	264	180	33,3	160	244	9
MAR-250-350 S	264	180	33,5	160	244	9
MAR-500 S	320	220	37	200	300	9
MAR-500/160	320	220	37	200	300	9
MAR-800-1000 S	355	240	37	220	335	9
MAR-1000	440	290	42	270	420	9
MAR-2000	540	355	52	355	520	9

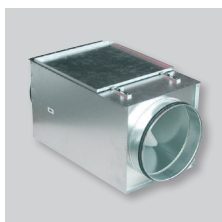


**MRJ**  
**Grilles** mounted at the inlet or outlet of the fan, to prevent the entry of any foreign objects that could damage the fan.

Model	Type of TD EVO
MRJ-250	TD EVO 100
MRJ-250-350 S	TD EVO 125
MRJ-500 S	TD EVO 150
MRJ-500/160	TD EVO 160
MRJ-800-1000 S	TD EVO 200
MRJ-1000	TD EVO 250
MRJ-2000	TD EVO 315



**MFL-G4**  
Filtration box with G4 grade filter included.



**MFL-F**  
Box in galvanized sheet steel to incorporate filters MFR F5, F6 or F7.



**MBE**  
Electric heater attenuators.



**SIL**  
Circular sound attenuators.

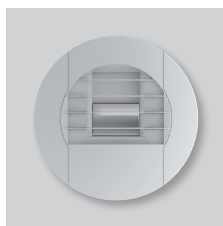


**GSA-M0**  
Flexible aluminium ducting.



**GSI-M0**  
Flexible acoustic ducting.

**GENERAL INSTALLATION ACCESSORIES**



**BEH**  
Circular air valves.



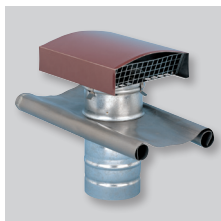
**EC AIR ENTRY**  
Reducer.



**BOC**  
Circular air valves.



**PER-W**  
Outdoor plastic  
louvre shutters.



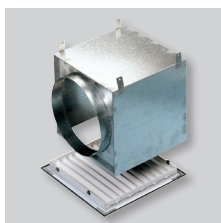
**CT**  
Roof terminal kits.



**GRA**  
Aluminium external  
grilles.



**GRI**  
Internal extract  
grilles.



**RP**  
Terminal connectors  
for GRI internal  
grilles.



**GCI**  
Interior circular  
grilles.

**ELECTRICAL ACCESSORIES**



**REB-ECOWATT**  
Remote speed  
control.



**CVF-ECOWATT**  
Remote speed  
control.



**AIRSENS**  
Single-phase speed  
controller



**CPTA-S/CPTA-E**  
Presence detector.



**THE-16/4A**  
Thermostat  
adjustable.



**TDP-S/TDP-D/  
TDP-PI**  
Pressure sensor.