

## TD-SILENT Series

NEW



Low profile "Mixed-flow" fans with sound-absorbent insulation. **Extremely quiet.**

Manufactured in plastic material, with a specifically designed internal skin to direct the sound waves in the right angle for them to be captured by the sound-absorbent material (1). Fitted with rubber gaskets on the inlet and outlet to absorb vibrations, **a body that can be dismantled.**

Connection box can be rotated 360°, to facilitate easy connection of the power cable.

## Motors

Speed controllable 230 V 50 Hz motor, of two speed motors.

Motors are IP44, class B, with ball bearings and safety thermal overload protection.

(1) Except the TD-160 SILENT, that is fitted with the special floating motor system patented by S&P.



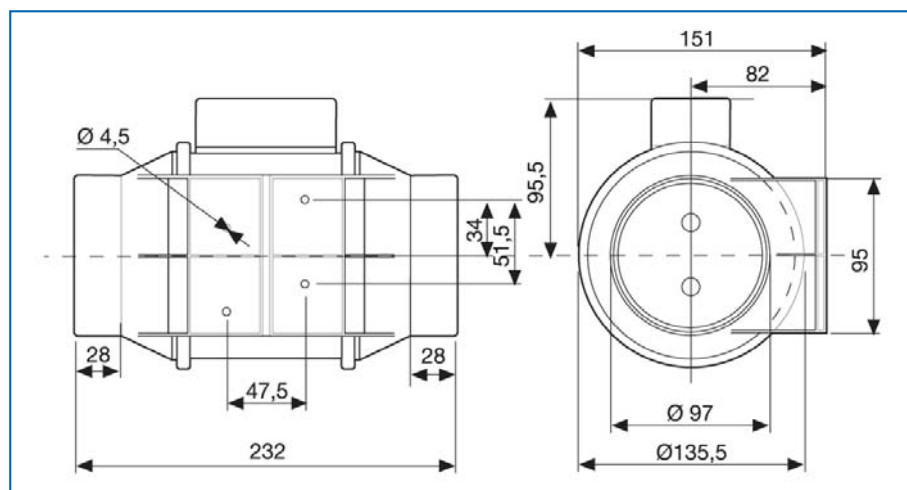
TD-SILENT range,  
the quietest fans in the world in their class

## Technical characteristics

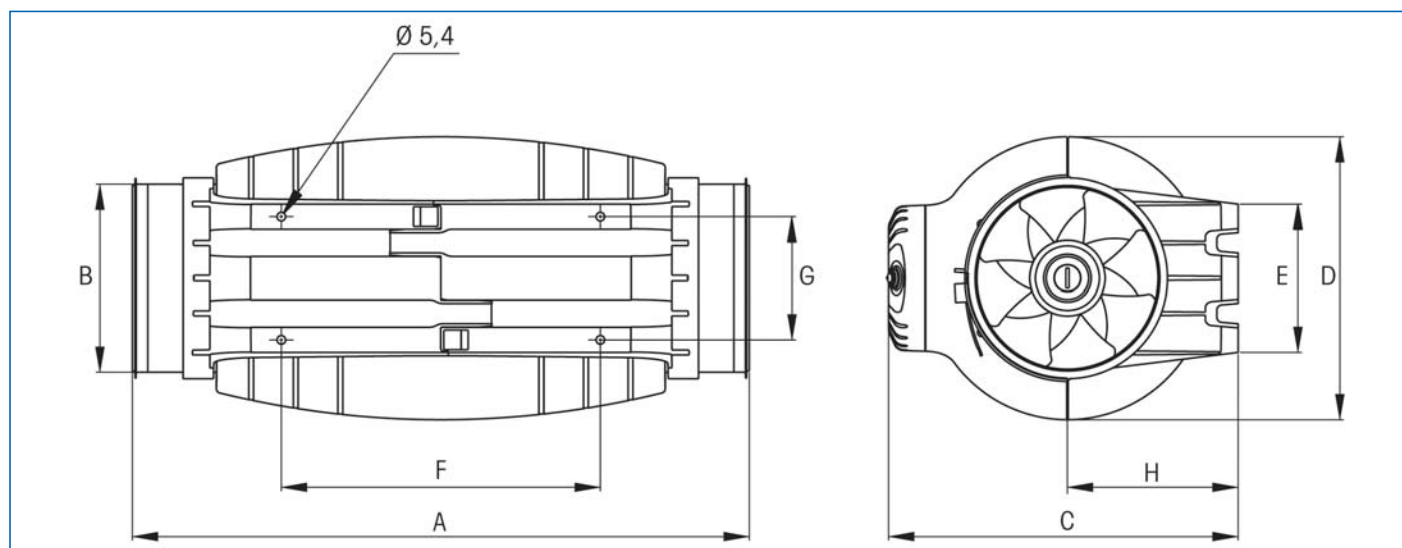
Model	Nom. speed (r.p.m.)	Maximum absorbed power (W)	Maximum absorbed current (A)	Duty at free discharge (m <sup>3</sup> /h)	Maximum operating temp. (°C)	Sound pressure level* (dB(A))	Ø Duct (mm)	Weight (Kg)
TD-160/100 N SILENT	2500	20	0,16	180	40	24	100	1,40
	2200	12	0,10	140		21		
TD-250/100 SILENT	2200	24	0,11	240	40	24	100	5,40
	1850	18	0,10	180		19		
TD-350/125 SILENT	2250	30	0,13	380	40	20	125	4,94
	1900	22	0,10	280		19		
TD-500/150-160 SILENT	2500	50	0,22	580	60	22	150 /160	6,00
	1950	44	0,19	430		17		
TD-800/200 SILENT	2780	95	0,45	880	60	19	200	8,70
	2480	90	0,43	700		18		
TD-1000/200 SILENT	2500	120	0,50	1100	60	21	200	8,70
	2000	100	0,45	800		20		

\*Sound pressure level radiated at 3 m at free air conditions with rigid ducts at the inlet and at the outlet.

## Dimensions (mm)



TD-160/100 N SILENT

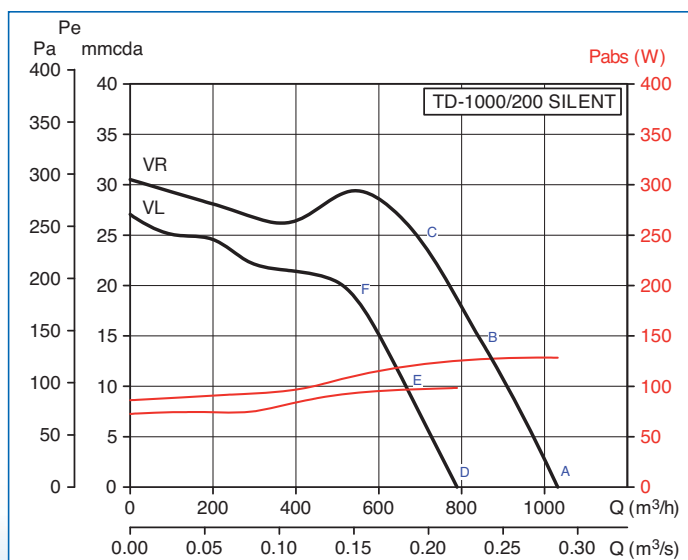
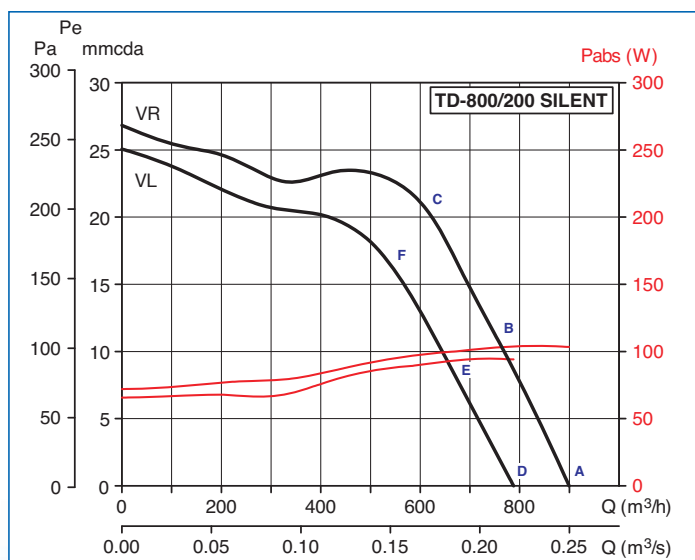
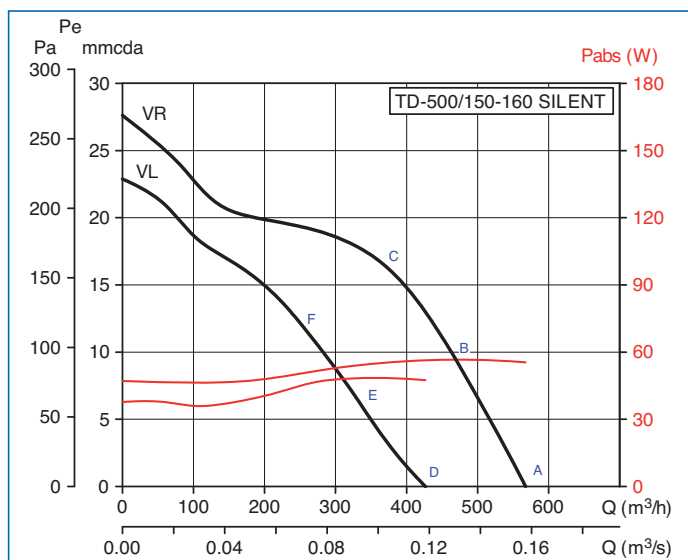
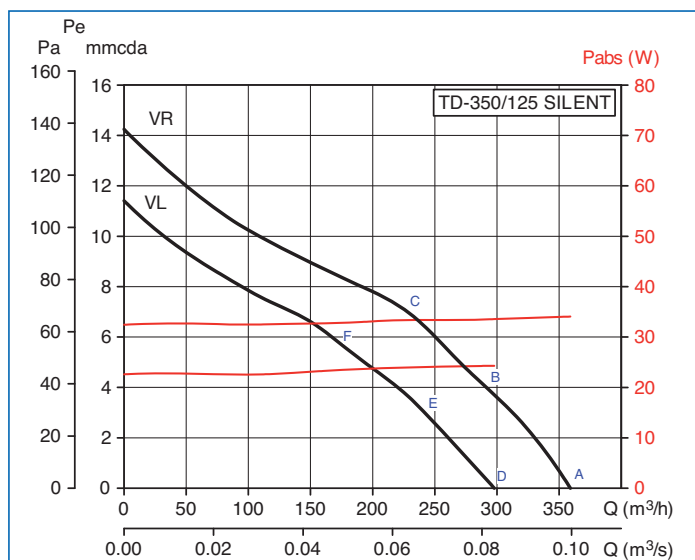
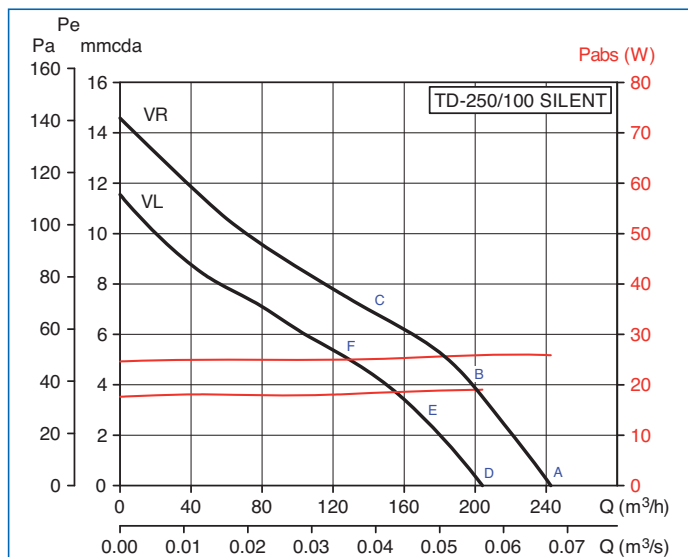
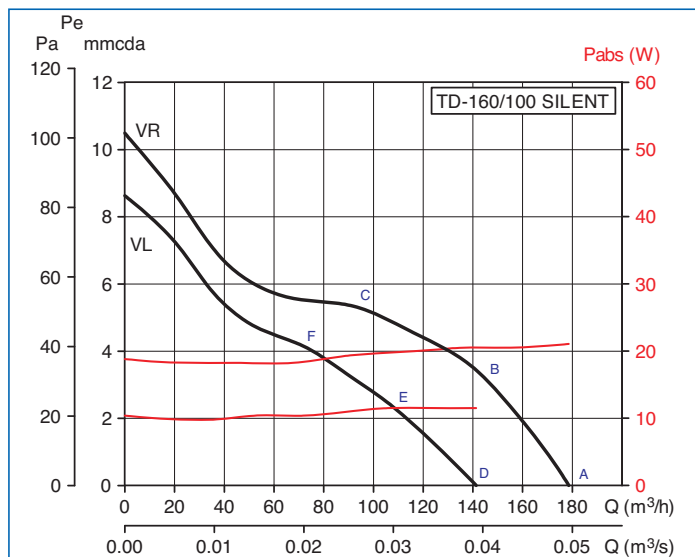


TD-SILENT 250 to 1000	A	B Ø	C	D Ø	E	F	G	H
TD-250/100	575	97	252	204	100	250	83	121
TD-350/125	462	123	252	204	100	250	83	121
TD-500/150-160*	484	147	274	221	116	250	96	134
TD-800/200	568	198	327	264	145	340	129	164
TD-1000/200	568	198	327	264	145	340	129	164

\* It provides an additional rubber gasket for installation in 160 mm ducts.

## ■ Performance curves

- Q = Air volume in, m<sup>3</sup>/hr and m<sup>3</sup>/s.
- Pe = Static pressure in mmWG and Pa.
- Dry air at 20°C and 760 mmHg.
- Performance data in accordance with ISO 5801, AMCA 210-99 Standards and BS 848 part 2:1985.





## Acoustic characteristics

Sound power spectrum: The sound levels shown in these tables are sound power levels at the discharge, radiated and inlet, in dB(A) for frequency ranges at points of the curve: (A or D) free discharge, (B or E) medium pressure, (C or F) maximum pressure. VR, fast speed. VL, slow speed. Performance data in accordance with ISO 13347-3 2004.

		TD-160/100 SILENT									63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
VR	INLET	A	24	32	39	46	52	49	40	31	54	34								
		B	23	32	40	46	51	47	39	30	54	33								
		C	23	34	43	47	51	47	39	30	54	33								
	RADIATED	A	24	24	37	34	36	41	32	21	44	24								
		B	23	24	38	35	35	39	31	20	44	24								
		C	23	26	41	36	35	39	31	20	44	24								
	DISCHARGE	A	30	34	37	48	51	47	41	31	54	33								
		B	29	35	37	48	49	46	39	30	53	33								
		C	28	36	39	49	50	45	39	30	54	33								

VL	TD-160/100 SILENT		63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
	INLET	D	23	26	37	43	49	45	36	27	51	31
		E	22	27	39	43	47	43	35	26	50	30
		F	22	29	41	44	48	44	35	27	51	31
	RADIATED	D	23	17	35	32	33	37	28	17	41	21
		E	22	18	37	32	31	36	27	17	41	21
		F	22	21	39	33	32	36	27	17	42	22
	DISCHARGE	D	29	32	34	45	48	44	37	27	51	30
		E	28	32	35	45	46	42	35	27	50	29
		F	28	33	36	46	47	42	36	27	51	30

	TD-250/100 SILENT	63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*	
VR	INLET	A	26	32	46	53	53	44	38	30	57	36
		B	24	36	46	53	52	44	38	30	56	36
		C	25	35	42	51	55	47	40	34	57	37
	RADIATED	A	26	28	40	40	36	31	25	18	44	24
		B	24	32	40	40	35	31	25	18	44	24
		C	25	31	36	38	38	34	27	22	43	23
	DISCHARGE	A	30	33	45	53	46	40	36	28	55	34
		B	26	35	43	52	45	40	36	28	54	33
		C	26	35	39	51	49	42	38	31	54	33

VL	TD-250/100 SILENT		63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
	INLET	D	22	38	42	47	48	38	32	26	52	31
		E	23	34	43	46	48	39	32	27	51	31
		F	24	33	39	49	54	43	35	29	56	35
	RADIATED	D	22	33	35	34	28	24	19	17	39	19
		E	23	29	36	33	28	25	19	18	39	19
		F	24	28	32	36	34	29	22	20	40	20
	DISCHARGE	D	26	36	40	47	41	34	29	24	49	29
		E	25	34	41	46	42	35	31	25	49	28
		F	25	33	38	49	46	37	33	26	51	31

	TD-350/125 SILENT		63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
VR	INLET	A	22	28	41	53	49	44	37	30	55	35
		B	22	27	39	51	49	42	37	30	54	33
		C	23	31	48	53	51	46	41	32	56	36
	RADIATED	A	22	23	32	39	32	25	18	14	41	20
		B	22	22	30	37	36	23	18	14	40	20
		C	23	26	39	39	34	27	22	16	43	22
	DISCHARGE	A	29	30	43	53	50	45	38	30	56	35
		B	25	27	40	50	47	40	36	29	52	32
		C	24	31	46	52	47	42	40	32	54	34

TD-350/125 SILENT		63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*	
VL	INLET	D	21	27	42	46	51	38	31	25	53	32
		E	22	29	40	46	53	39	34	26	54	34
		F	30	33	41	51	52	46	40	33	55	35
	RADIATED	D	18	22	34	33	34	20	13	13	39	18
		E	19	24	32	33	36	21	16	14	39	19
		F	27	28	33	38	35	28	22	21	41	21
	DISCHARGE	D	24	27	43	45	46	38	30	25	50	29
		E	23	29	40	45	47	35	32	26	50	29
		F	29	34	41	49	46	41	38	31	52	31

	TD-500/150 SILENT		63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
VR	INLET	A	24	35	51	58	57	56	51	47	63	42
		B	25	33	48	56	55	54	46	42	60	40
		C	24	33	49	57	53	52	46	40	60	39
	RADIATED	A	12	21	42	39	37	35	23	18	45	25
		B	13	19	39	37	35	33	18	13	43	22
		C	12	19	40	38	33	31	18	11	43	22
	DISCHARGE	A	38	38	52	60	58	53	49	43	63	43
		B	35	35	53	58	57	50	44	38	62	41
		C	30	33	50	57	56	48	42	36	60	40

TD-500/150 SILENT		63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*	
VL	INLET	D	28	33	46	54	53	51	45	38	58	38
		E	25	31	41	50	48	44	37	30	53	33
		F	25	37	48	56	52	49	42	35	59	38
	RADIATED	D	23	25	34	37	38	35	26	23	43	22
		E	20	23	29	33	33	28	18	15	38	17
		F	20	29	36	39	37	33	23	20	43	23
	DISCHARGE	D	26	33	47	53	51	47	41	33	56	36
		E	25	31	44	50	48	41	33	27	53	33
		F	26	37	50	55	50	43	37	31	57	37

	TD-800/200 SILENT		63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
VR	INLET	A	27	40	48	57	61	61	57	50	66	45
		B	25	38	46	55	58	58	54	46	63	42
		C	23	38	47	57	59	58	53	48	64	43
	RADIATED	A	12	31	29	35	37	36	24	18	42	21
		B	10	29	27	33	34	33	21	14	39	19
		C	8	29	28	35	35	33	20	16	40	19
	DISCHARGE	A	49	50	51	59	62	62	59	51	67	47
		B	42	45	49	58	59	58	55	47	64	44
		C	36	42	50	58	59	57	54	47	64	43

VL	TD-800/200 SILENT		63	125	250	500	1.000	2.000	4.000	8.000	LwA	LpA*
	INLET	D	25	37	48	55	61	57	53	46	64	43
		E	24	35	48	52	58	54	49	42	61	40
		F	29	38	51	58	58	55	50	45	63	42
	RADIATED	D	12	26	30	34	38	33	21	15	41	20
		E	11	24	20	31	35	30	17	11	38	18
		F	16	27	33	37	35	31	18	14	41	20
	DISCHARGE	D	45	47	52	56	59	58	54	46	64	43
		E	37	45	54	53	55	54	50	42	61	40
		F	31	44	54	57	56	53	50	43	62	41

\*Sound pressure level radiated at 3 m. in free field condition, with rigid ducts at the inlet and outlet.



## ■ Mounting accessories

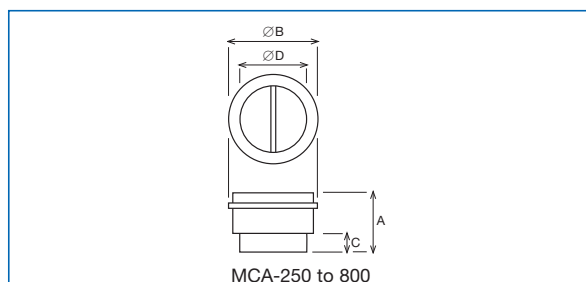
TD-SILENT



### MCA

Non-return flaps to be installed at the fan discharge. They prevent heat leakages when the extractor is not operating.

Model MCA	TD-SILENT range
MCA - 250	160/100N - 250/100
MCA - 350	350/125
MCA - 500/150	500/150
MCA - 500/160	500/160
MCA - 800	800/200 - 1000/200



Model MCA	A	Ø B	C	Ø D
MCA - 250	107	111	31,5	94,5
MCA - 350	107	136	31,5	119,5
MCA - 500/150	121	163,5	35	147
MCA - 500/160	121	173,5	35	157
MCA - 800	131,5	214	35	197,5

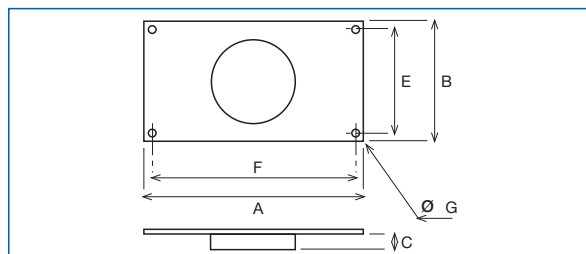
In-Line duct fans



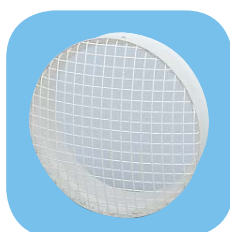
### MAR

Rectangular Duct Adapters enable connection to rectangular ducting.

Model MAR	TD-SILENT range	Nominal dimensions of the duct L x H
MAR - 250	160/100N - 250/100	224 x 140
MAR - 350	350/125	224 x 140
MAR - 500/150	500/150	280 x 180
MAR - 500/160	500/160	280 x 180
MAR - 800	800/200-1000/200	315 x 200



Model MAR	A	B	C	E	F	Ø G
MAR - 250	264	180	33,3	160	244	9
MAR - 350	264	180	33,5	160	244	9
MAR - 500/150	320	220	37	200	300	9
MAR - 500/160	320	220	37	200	300	9
MAR - 800	355	240	37	220	335	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.

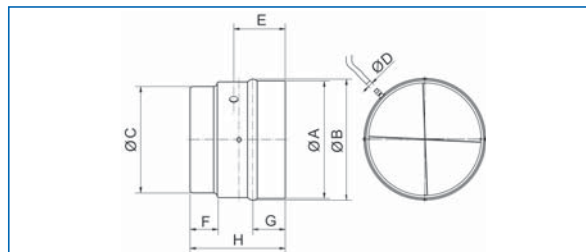
Model MRJ	TD-SILENT range
MRJ - 250	160/100N - 250/100
MRJ - 350	350/125
MRJ - 500/150	500/150
MRJ - 500/160	500/160
MRJ - 800	800/200 - 1000/200



### MPC

Flow detectors designed to correctly measure pressures at the inlet of series TD devices with airflow straightener.

Model	TD-SILENT range
MPC-350	350/125
MPC-500/150	500/150
MPC-500/160	500/160
MPC-800	800/200 - 1000/200



Model	A	B	C	D	E	F	G	H
MPC-350	136	132	120	6	58	32	37	107
MPC-500/150	164	158	147	6	64	35	40	121
MPC-500/160	174	168	157	6	64	35	40	121
MPC-800	214	208	198	6	70	35	40	132

## ■ Electrical accessories



**REGUL 2**  
2 speed switch.



**REB**  
Single-phase electronic speed controller.



**CONTROL ECOWATT**  
**Control element for demand controlled ventilation systems** in public, commercial residential buildings that automatically modifies the fan speed to adapt it to the needs defined in the system, measured with sensors.



**VAPZ**  
**Electronic single-phase regulator** that controls the fan speed with a simple contact (presence detector) or an analogical input, 0-10 V or 4-20 mA (CO<sub>2</sub> probe for relative humidity % RH).



**SCO2-A**  
Ambient CO<sub>2</sub> and temperature sensor.

**SCO2-AD**  
Ambient CO<sub>2</sub> and temperature sensor, with display.

**SCHT-AD**  
Ambient CO<sub>2</sub>, temperature and relative humidity with display.



**CPFL-S / CPFL-E**  
Presence Detector for wall fitting, sensitive to infrared radiation by bodies in movement, with a 360° detecting angle. Power supply: 1-230 V.



**TDP-S / TDP-D**  
Pressure sensor. Enables you to control the pressure in the fan inlet.  
Pressure range: 0-2500 Pa.  
Output signal: 0-10V/4-20 mA.



**REMP**  
**Motorised damper**, opening proportionally and controlled by the BEAS control module. Power supply: 24 VAC or 24 VD, depending on the models.

