



TD-SILENT ECOWATT

5211006300 - TD-500/150-160 SILENT ECOWATT (230V 50/60) NE - IN-LINE DUCT FANS



Low profile "Mixed-flow" fans (models from 350 to 1000) with sound-absorbent insulation, extremely quiet, fan casing manufactured in plastic material, with a specially designed internal skin to direct the sound waves at the right angle for them to be captured by sound-absorbent material, fitted with flexible rubber seals on the inlet and outlet to absorb vibrations, with an external connection box, a body that can be removed without dismantling the adjacent ducting and therefore facilitating any installation or maintenance. Brushless EC motor, high efficiency and low consumption, suitable for single phase supply 230V±15%/50-60Hz, IP44, class B, thermal overload protection. Fan speed 100% adjustable with the potentiometer placed in the connection box or with an external control type REB-ECOWATT. Analogue input with terminals in the terminal box to control the fan with 0-10V input signal. Models are suitable for mounting in any orientation and operation within ambient air temperatures between -20°C up to +40°C. Suitable for any kind of ventilation application where the noise level of the ventilation system is of particular importance and, due to continuous operation, a significant energy saving is desirable. It is also suitable for applications that require a Demand Controlled Ventilation System involving the use of other sensors or controls. Brand S&P model TD-500/150-160 SILENT ECOWATT (230V 50/60) NE.

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Theoretical Working Point

Airflow	-
Static Pressure	0,000 Pa
Temperature	20 °C
Altitude	0 m
Density	1,2 kg/m ³
Frequency	50/60 Hz
Voltage	1-230V-50Hz

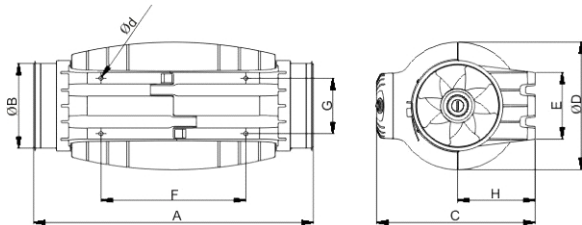
Construction

Discharge diameter	150 mm
Fan size	150
Weight	6,00 kg

Motor Characteristics

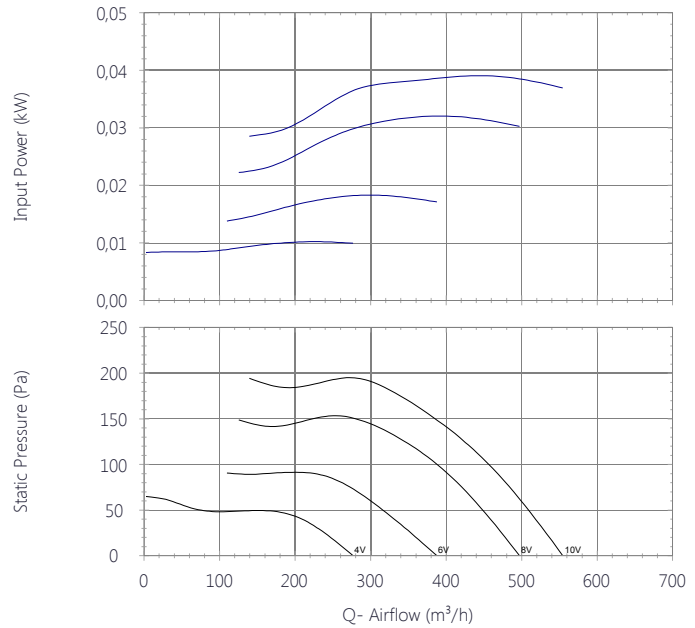
Voltage	1-230V-50Hz
Maximum absorbed current	0,3 A
IP Rating	IP44
Motor insulation class	B

Drawing



A	B	C	D	E	F	G	H	d
484	147	274	221	116	250	96	134	5.4

Performance Chart



Sound Performance

	63	125	250	500	1k	2k	4k	8k	Overall
Inlet (LwA)	22	33	52	60	60	60	54	45	65
Inlet LpA @ 1m	11	22	41	49	49	49	43	34	54
Outlet (LwA)	37	36	53	61	60	55	49	42	65
Outlet LpA @ 1m	26	25	42	50	49	44	38	31	54
Breakout (LwA)	10	27	45	50	49	46	41	31	54
Breakout LpA @ 1m	-	16	34	39	38	35	30	20	43

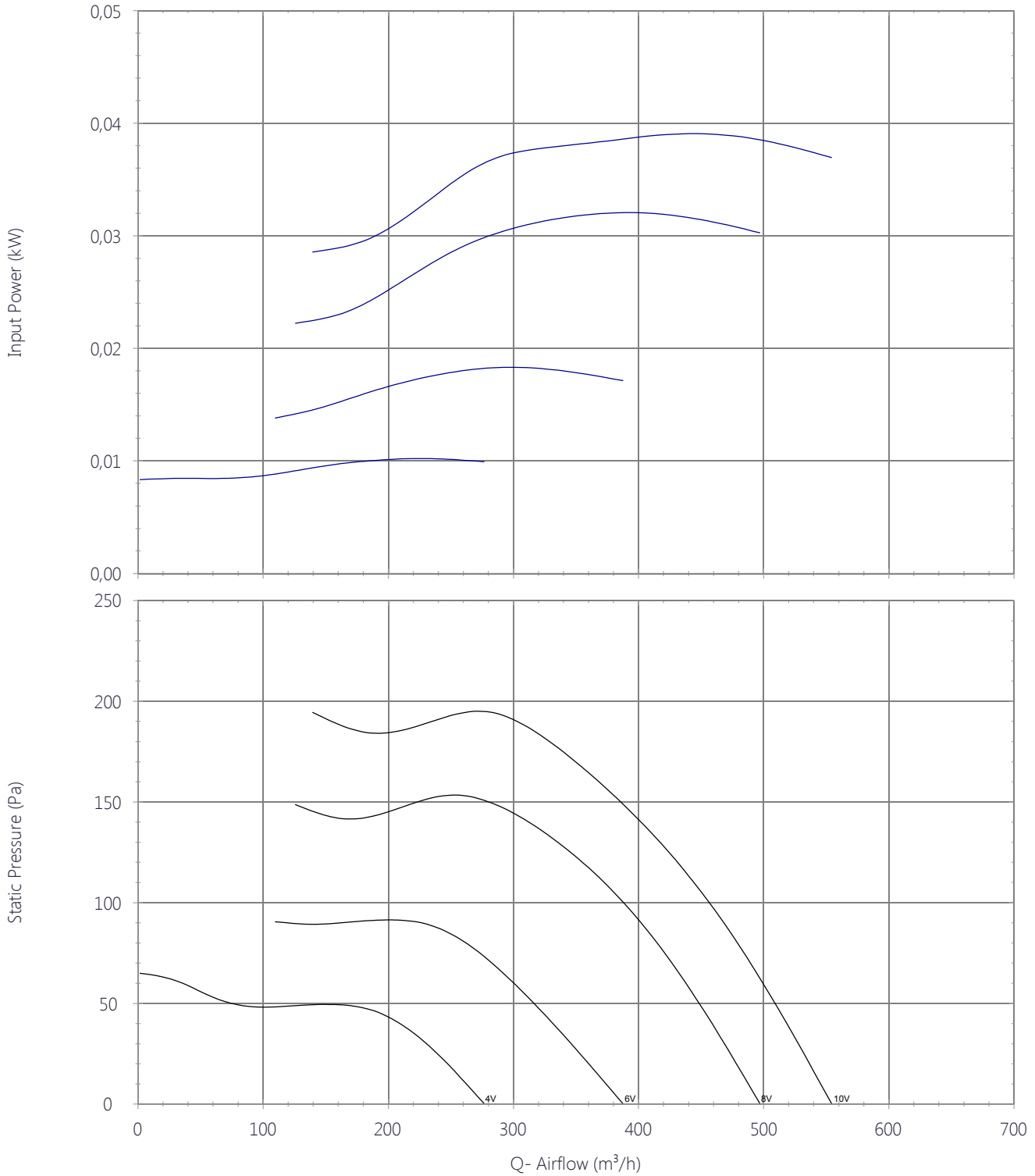




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Performance Chart

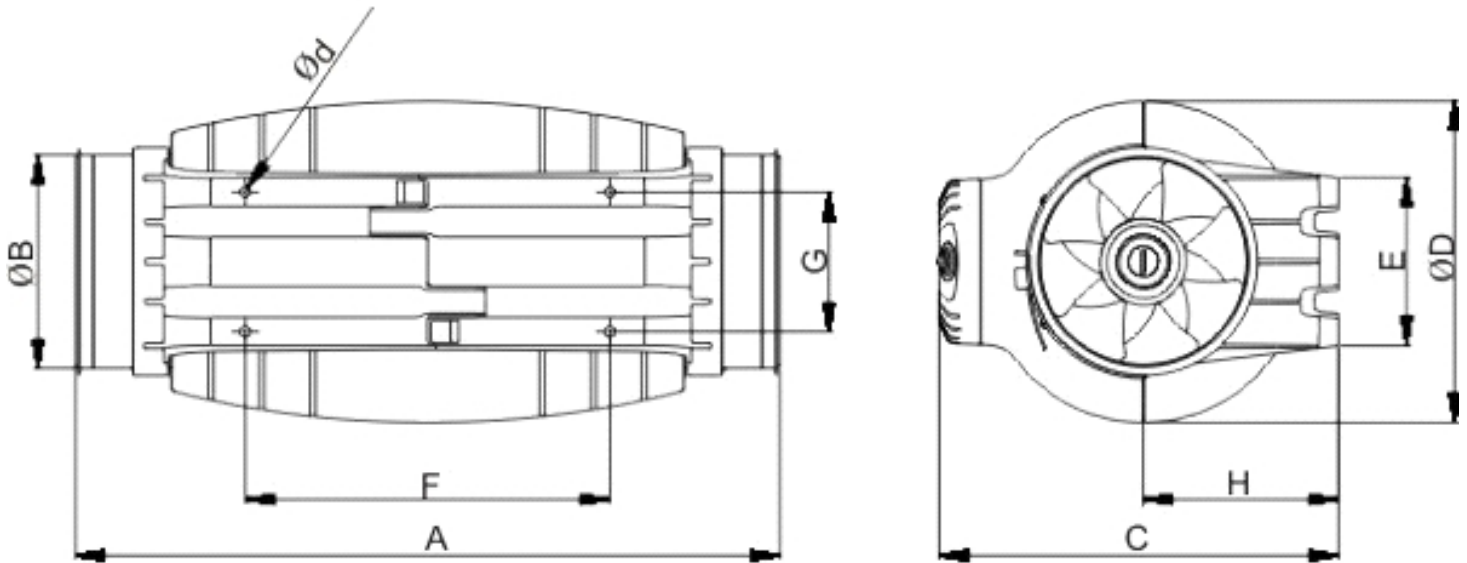




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Drawing



A	B	C	D	E	F	G	H	d
484	147	274	221	116	250	96	134	5.4

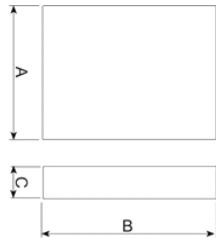
Accessories

5401613800 - CONTROL ECOWATT AC/DC (90-260Vac 50y60HZ)



Control element for demand controlled ventilation systems in public, commercial residential building it automatically modifies the fan speed to adapt it to the needs defined in the system, measured with sensors. It has three basic modes of operation: 1. Integral proportional control at constant pressure. 2. Proportional control with maximum demand criteria with multiple sensor input: temperature, CO2 and relative humidity. 3. Minimum-maximum control with three-sensor input: CO2, temperature, relative humidity or presence detectors (PIR). DC signal output of 1 to 10 V or signal output for AC voltage variation for single phase motors at 230 V. ECOWATT C CONTROL: for single phase ventilation units. ECOWATT C CONTROL: for DC ventilation units . Power supply:- AC model: 1~230 V. - DC model: 1~230 V or 24 VDC..

Dimensions



H	B	T
220	165	110

5401637300 - CONTROL ECOWATT BASIC

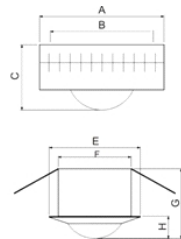


5416730700 - CPFL-E

Presence detector for ceiling mount, sensitive to infrared radiation emitted by bodies in movement, with a 360° detecting angle. Power supply: 1-230 V.CPFL-E: Flush mount model.



Dimensions



A	B	C	E	F	G	H
105	87	55	90	72	69	22



TD-SILENT ECOWATT

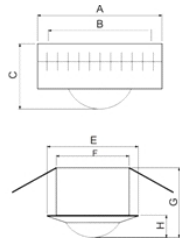
5211006300 - TD-500/150-160 SILENT ECOWATT (230V 50/60) NE - IN-LINE DUCT FANS

5416730600 - CPFL-S

Presence detector for ceiling mount, sensitive to infrared radiation emitted by bodies in movement, with a 360° detecting angle. Power supply: 1-230 V. CPFL-S: Surface model.



Dimensions



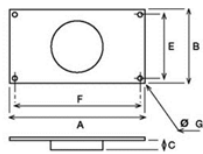
A	B	C	E	F	G	H
105	87	55	90	72	69	22

5418061400 - MAR-500 S

RECTANGULAR DUCT ADAPTERS - TD MIXVENT SERIES



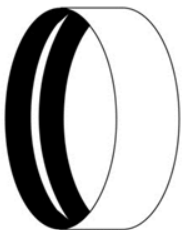
Dimensions



A	B	C	E	F	G
320	220	37	200	300	9

5418062800 - MBR-500 S

CIRCULAR CONNECTION FLANGE



Dimensions



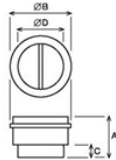
D
150

5418062300 - MCA-500/150 S



Circular back draft shutter

Dimensions



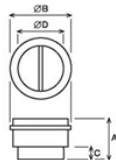
A	B	C	D
121	163.5	35	147

5418062400 - MCA-500/160 S



Circular back draft shutter

Dimensions



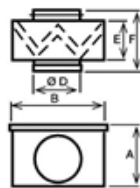
A	B	C	D
121	173.5	35	157

5416589900 - MFL-150 G4



MFL filtration boxes are of G4 grade filtration and are designed for direct connection with standard circular ducting. The MFL-G4 filtration boxes are supplied with a cover easily removable to replace the filter.

Dimensions



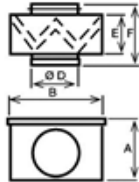
A	B	D	E	F
206	229	150	154	218

5416592300 - MFL-160 G4



MFL filtration boxes are of G4 grade filtration and are designed for direct connection with standard circular ducting. The MFL-G4 filtration boxes are supplied with a cover easily removable to replace the filter.

Dimensions



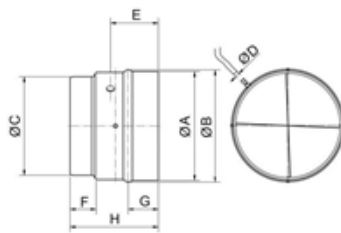
A	B	D	E	d
206	229	160	154	218

5418061800 - MPC-500/150 S



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

Dimensions



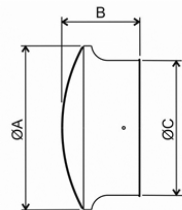
A	B	C	D	E	F	G	H
164	158	147	6	64	35	40	121

5418062600 - MRJ-500 S

Circular wire guard



Dimensions



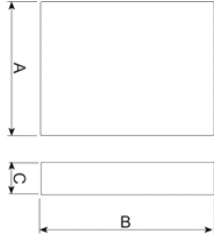
B	DI	NW	L
184	147	150	80

5407004100 - PRESOSTATO DPS 2-30

Differential pressure switch to control the fan running and the filter clogging up. Protection class: IP54. Can be used outside. From 20 to 300 Pa.



Dimensions



A	B	C
80	110	57

5401304100 - REB-CVF (0-10V)

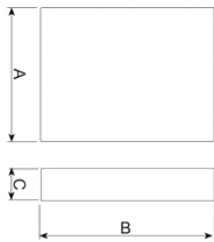


5401304000 - REB-ECOWATT (0-10V)

Electronic voltage regulator



Dimensions



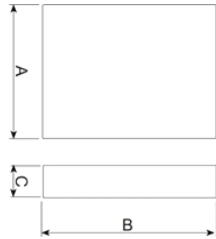
B	H	T
80	80	68

5416731100 - SCHAT-AD



SCHAT-AD: Ambient CO2 sensor, temperature and relative humidity with display.

Dimensions



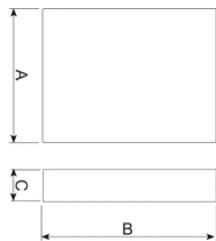
A	B	C
85	26	100

5416730800 - SCO2-A



SCO2-A: Ambient CO2 and temperature sensor.

Dimensions



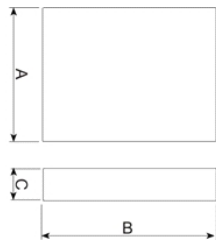
A	B	C
85	26	100

5401221000 - SCO2-A 0/10V



SCO2-A: Ambient CO2 and temperature sensor.

Dimensions



B	H	T
11	130	65



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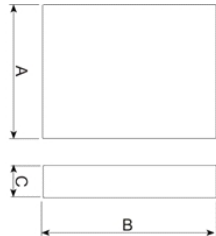
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5416730900 - SCO2-AD

SCO2-AD: Ambient CO2 and temperature sensor with display.



Dimensions



B	H	T
11	130	65

5211810600 - SIL-160

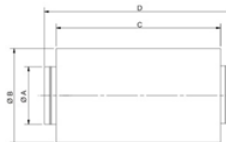
Silencer to be installed either at the inlet or outlet of the fan.



Corrections

63	125	250	500	1k	2k	4k	8k
-1	-3	-7	-17	-23	-29	-20	-9

Dimensions



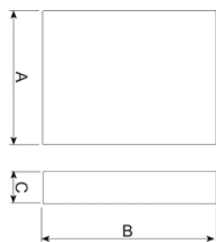
A	B	C	D
160	250	600	700

5416731400 - TDP-D

TDP-D: Pressure sensor, with display. Enables you to control the pressure in the fan inlet.



Dimensions



B	H	T
11	130	65



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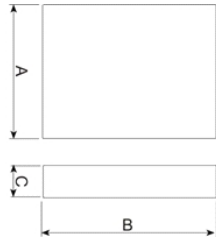
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5416731300 - TDP-S



TDP-S: Pressure sensor. Enables you to control the pressure in the fan inlet.

Dimensions



A	B	C
75	80	36



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Breakout (LwA)	10	27	45	50	49	46	41	31	54
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ErP Data

Ecodesign	
Commission regulation (EU) N°1253/2014 of July 2014	
Information requirements (Annex V)	
Product description	TD-500/150-160 SILENT ECOWATT (230V 50/60) NE
Manufacturer's Info	S&P ES-08150 CIF-B64911928
Identifier	5211006300
Typology	NRVU unidirectional
Drive	VSD
Type of HRC	None
Thermal efficiency (%)	NA
Qnom (m3/s)	0,09
Pelec (kW)	0,04
SFPint (W/m3/s)	NA
Face velocity (m/s)	5,62
$\Delta p_{s,ext}$ (Pa)	176,3
$\Delta p_{s,int}$ (Pa)	NA
$\Delta p_{s,add}$ (Pa)	NA
Static efficiency fans (%)	51,6
External leakage rate (%)	3
Internal leakage rate (%)	NA
Filter performance	NA
Filter warning	NA
LWA dB(A)	53
https://www.solerpalau.com/	