

TD-SILENT ECOWATT



5211006200 - TD-350/100-125 SILENT ECOWATT (230V 50/60) RE - 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-350/100-125 SILENT ECOWATT (230V 50/60) RE for an airflow 120 m³/h and static pressure 50 Pa.

Theoretical Working Point

Airflow	120 m³/h
Static Pressure	50 Pa
Temperature	20 °C
Altitude	0 m
Density	1.2 kg/m³
Frequency	50 Hz
Voltage	1-230V-50Hz

Working Point

Airflow	120 m³/h
Static Pressure	50 Pa
Dynamic pressure	4.47 Pa
Total Pressure	55 Pa
Input power	0.011 kW
Outlet speed	2.7 m/s
Fan speed	1872 rpm
Specific Fan Power	0.34 W/l/s

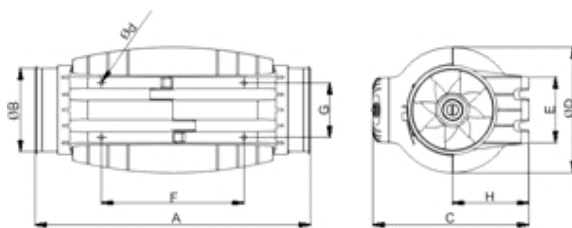
Construction

Diameter	125 mm
Fan size	125
Weight	5.00 kg

Motor Characteristics

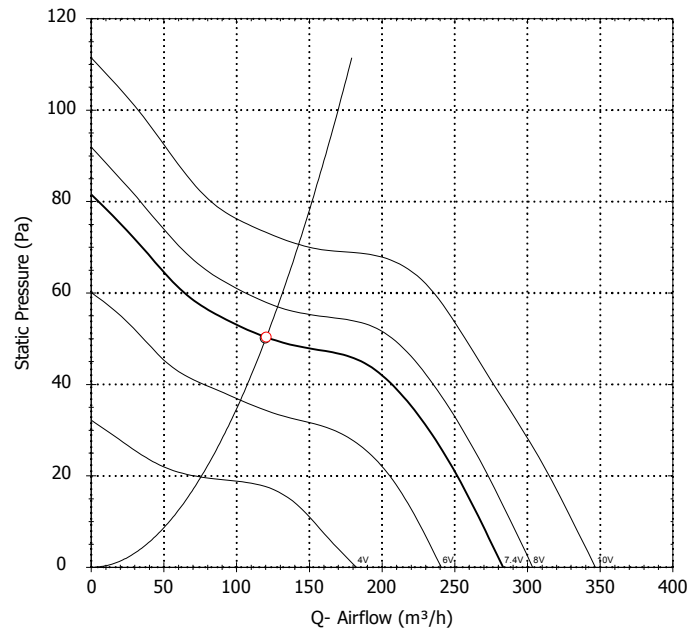
Voltage	1-230V-50Hz
Maximum absorbed current	0.1 A
IP Rating	IP44
Motor insulation class	B

Drawing



A	φB	C	φD	E	F	G	H	φd
462	123	252	204	100	250	83	121	5,4

Performance Chart



Sound Performance

	63	125	250	500	1k	2k	4k	8k	Overall
Inlet (LwA)	25	29	41	53	46	42	36	29	54
Inlet LpA @ 1.5m	10	14	26	38	31	27	21	14	40
Outlet (LwA)	24	30	40	51	44	38	34	27	52
Outlet LpA @ 1.5m	9	15	25	36	29	23	19	12	38
Breakout (LwA)	23	31	38	49	38	33	26	21	50
Breakout LpA @ 1.5m	8	16	23	34	23	18	11	6	35



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Theoretical Working Point

Airflow	NaN m³/h
Static Pressure	-
Temperature	20 °C
Altitude	0 m
Density	1.2 kg/m³
Frequency	50 Hz
Voltage	1-230V-50Hz

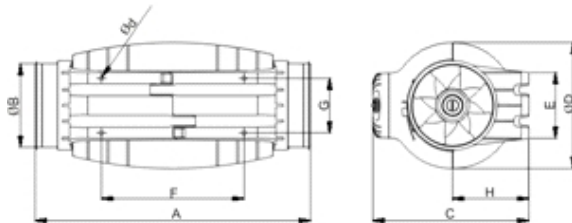
Construction

Diameter	125 mm
Fan size	125
Weight	5.00 kg

Motor Characteristics

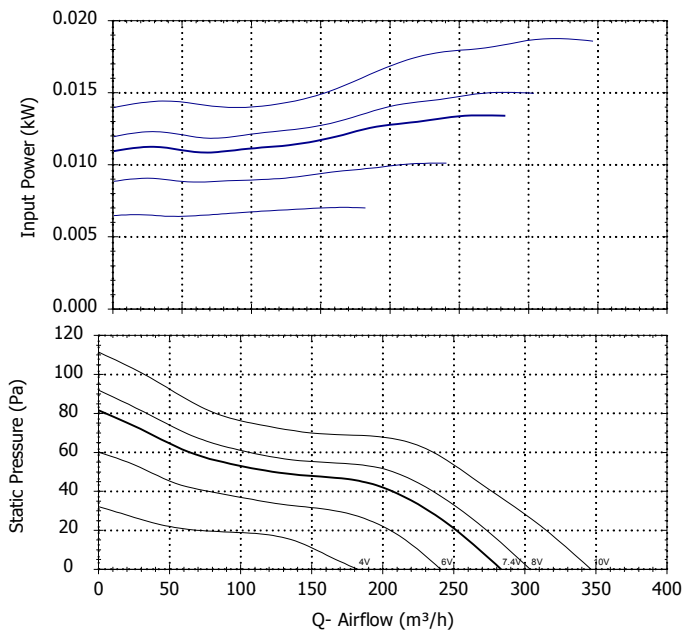
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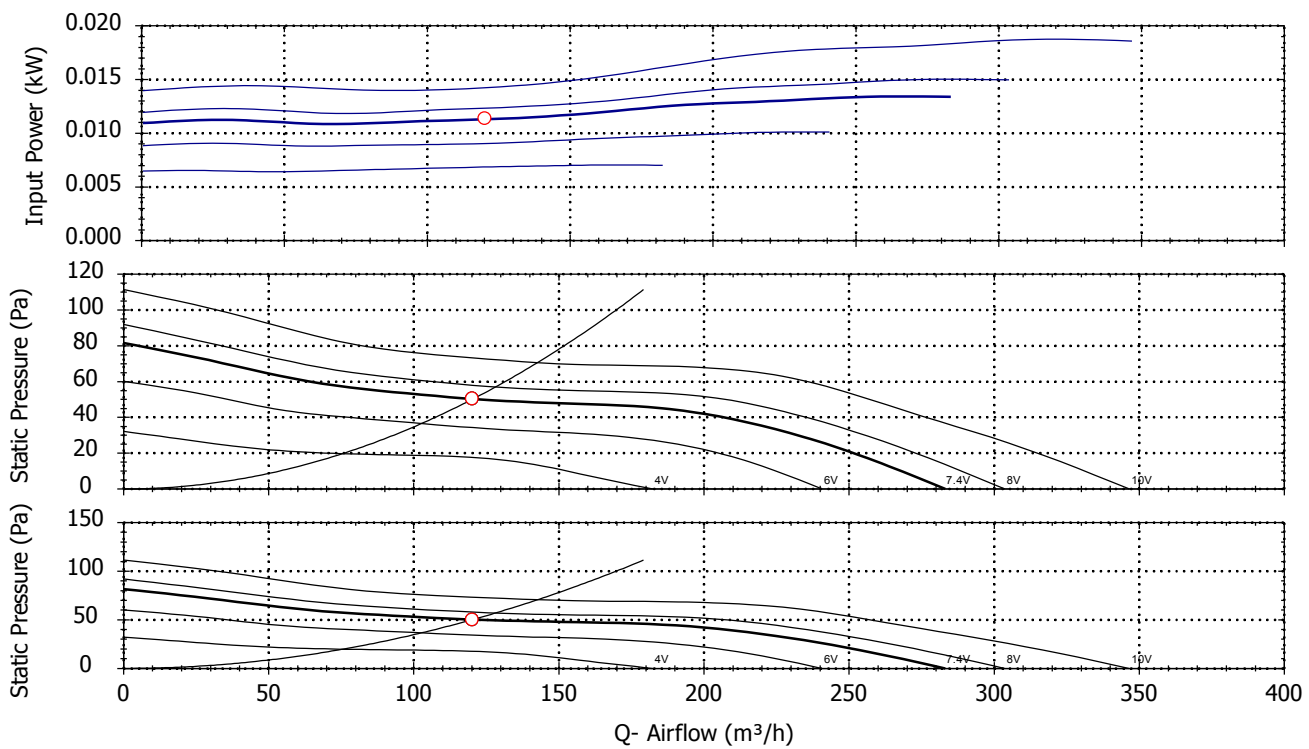
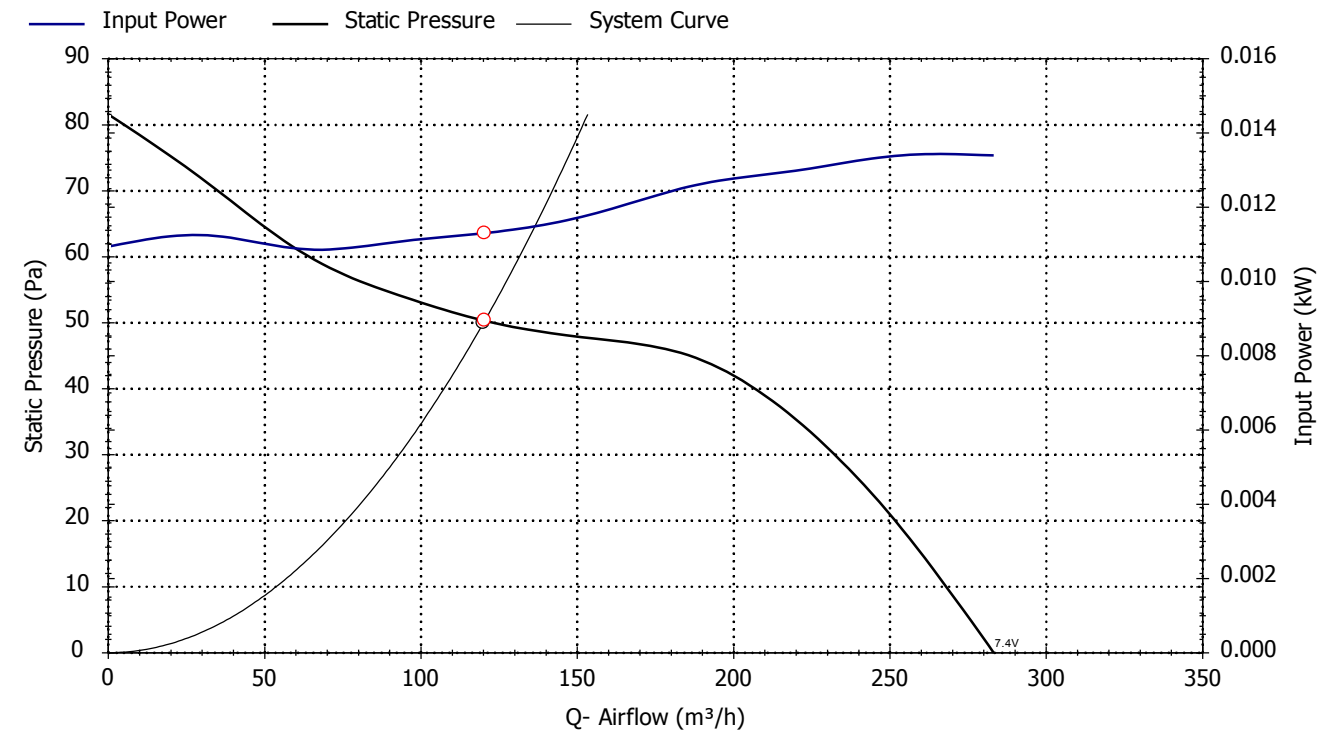
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Performance Chart



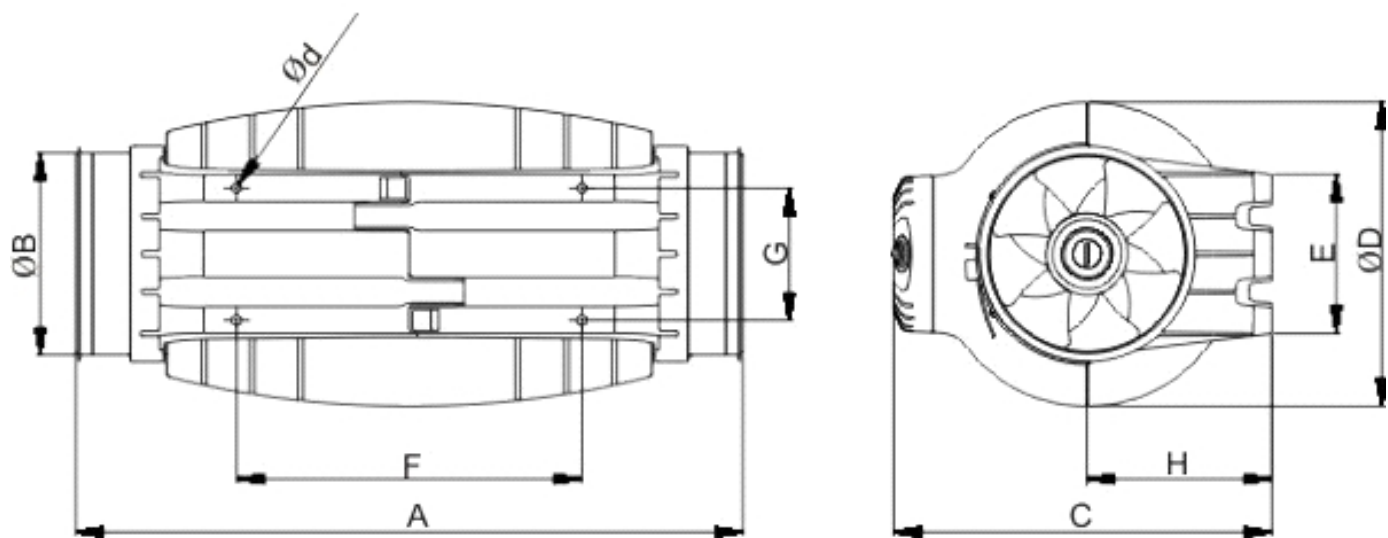
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Drawing



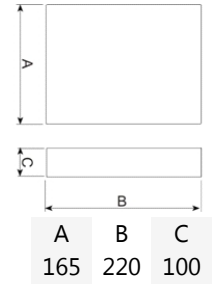
A	φB	C	φD	E	F	G	H	φd
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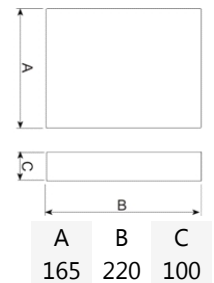
Accessories



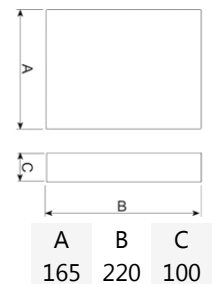
5401621000 - CONTROL ECOWATT DC/DC(24-48Vcc)
Control element for demand controlled ventilation systems in public, commercial residential building it automatically modifies the fan speed to adapt it to the needs defined in the system, measured with sensors. It has three basic modes of operation: 1. Integral 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



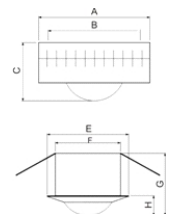
5401620900 - CONTROL ECOWATT AC/4A (230Vac 50HZ)
Control element for demand controlled ventilation systems in public, commercial residential building it automatically modifies the fan speed to adapt it to the needs defined in the system, measured with sensors. It has three basic modes of operation: 1. 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



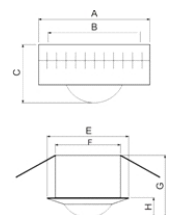
5401613800 - CONTROL ECOWATT AC/DC (90-260Vac 50y60HZ)
Control element for demand controlled ventilation systems in public, commercial residential building it automatically modifies the fan speed to adapt it to the needs defined in the system, measured with sensors. It has three basic modes of operation: 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



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.

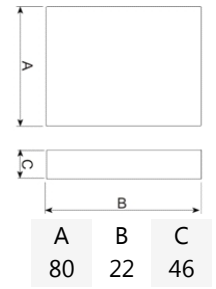


5416730600 - CPFL-S
Presence detector for ceiling mount, sensitive to infrared radiation emitted by bodies in movement, with a 360° detecting angle. Power supply: 1-230 V. CPFL-S: Surface model.

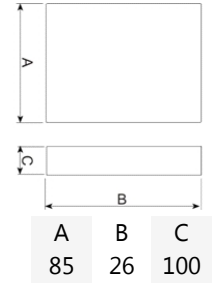




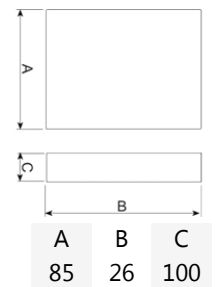
5401304000 - REB-ECOWATT (0-10V)
Electronic voltage regulator



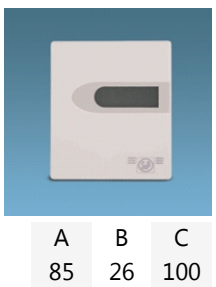
5416731100 - SCHT-AD
SCHT-AD: Ambient CO2 sensor, temperature and relative humidity with display.



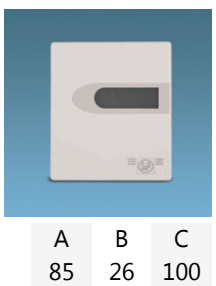
5416730800 - SCO2-A
SCO2-A: Ambient CO2 and temperature sensor.



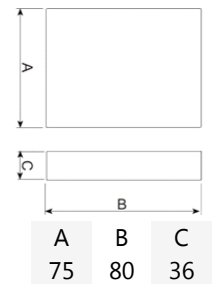
5401221000 - SCO2-A 0/10V
SCO2-A: Ambient CO2 and temperature sensor.



5416730900 - SCO2-AD
SCO2-AD: Ambient CO2 and temperature sensor with display.



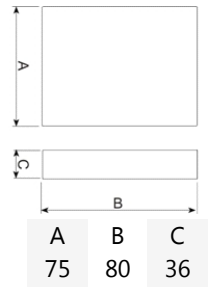
5416731400 - TDP-D
TDP-D: Pressure sensor, with display. Enables you to control the pressure in the fan inlet.





5416731300 - TDP-S

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





Sound Performance

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ErP Data

Ecodesign	
Commission regulation (EU) N°1253/2014 of July 2014	
Information requirements (Annex V)	
Trade mark	S&P
Identifier	5211006200
SEC average climate (kWh/(m2.an))	-15.41
SEC class	NA
SEC cold climate (kWh/(m2.an))	-31.81
SEC warm climate (kWh/(m2.an))	-6.01
Typology	RVU unidirectional
Type of drive	Variable speed drive
Type of HRC	None
Thermal efficiency (%)	0
Maximum flow rate (m3/h)	242.62
Electrical power input at maximum flow rate (W)	17.88
Sound power level (LWA)	45
Reference flow rate (m3/s)	0.05
Reference pressure difference (Pa)	28.55
SPI (W/m3/h)	0.06
Control factor	1
Control typology	Manual
Maximum internal leakage for BVU (%)	Not applicable
Maximum external leakage for BVU and UVU (%)	
Mixing rate for BVU without duct connection (%)	Not applicable
Position of visual filter warning	Not applicable
description of visual filter warning	Not applicable
Instructions to install supply grilles	Not applicable
Instructions to install exhaust grilles	Not applicable
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Airflow sensitivity to pressure variation	Not applicable
Indoor/outdoor air tightness (m3/h)	Not applicable
Annual electricity consumption - Average climat (kWh/a)	69.75
Annual electricity consumption - Warm climat (kWh/a)	69.75
Annual electricity consumption - Cold climat (kWh/a)	69.75
Annual heating saved - Average climat (kWh/a)	17.15
Annual heating saved - Warm climat (kWh/a)	7.76
Annual heating saved - Cold climat (kWh/a)	33.55