MODELS 350 TO 1000

MODELS 1300 AND 2000

WWW DTR CE

APPLICATION

TD SILENT ECOWATT fans are designed for rooms with a low level of dust. The compact design allows these type of fans to be installed in suspended ceilings. These fans are characterized by low levels of noise and low energy consumption. Ideal for ventilation of public buildings, libraries, conference rooms, offices, restaurants, classrooms, sound studios.

CONSTRUCTION

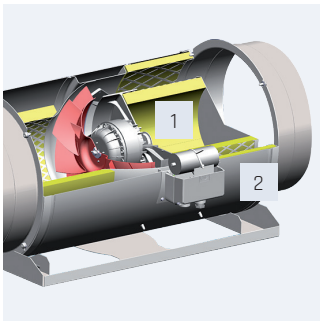
TD SILENT ECOWATT can be mounted in any position. The unique design allows maintenance without removing the ventilation ducts. Models 250-1000 are made of polypropylene and have a rotary junction box. Models 1300-2000 are made of steel painted with epoxy paint. Equipped with sound absorbing material and flexible connectors with quick couplers to prevent vibration.

MOTOR

Brushless motor, single phase 230V ±15% / 50-60Hz, IP44 with thermal protection against overheating. Speed adjustable with potentiometer in terminal box or external controller REB ECOWATT. Possible to control with analog signal 0-10V.
Electrical connection diagram fig. 3, p. 662.

70% reduced energy consumption at 50% of maximum fan speed

The low profile of the TD-SILENT ECOWATT fans makes them the most effective solution for installations where space is very limited, especially in ceiling voids.



Low noise level

1. Acoustic insulation (A2-s1, d0) glass fibre.
2. Outer shell.
3. Aerodynamic inlet to improve air flow and reduce sound.
4. Attenuating perforated skin.

MODELS 350-1000 - ASSEMBLY AND MAINTENANCE

Loosen and open clamps on both sides.

Remove the fan body.

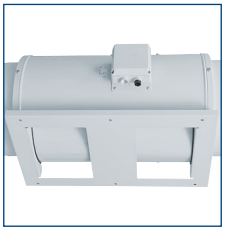
Remove the terminal box lid.

Connect electrical supply.

Remount the fan body by tightening the clamps.

MODELS 1300-2000 - ASSEMBLY AND MAINTENANCE

Easy maintenance
Detachable fan unit for maintenance, or cleaning, without demounting duct connections.



Support bracket
Suitable for wall or ceiling mounting. Fixing brackets to the motor-body included.

IP55 remote terminal box.
Easy installation and connection.

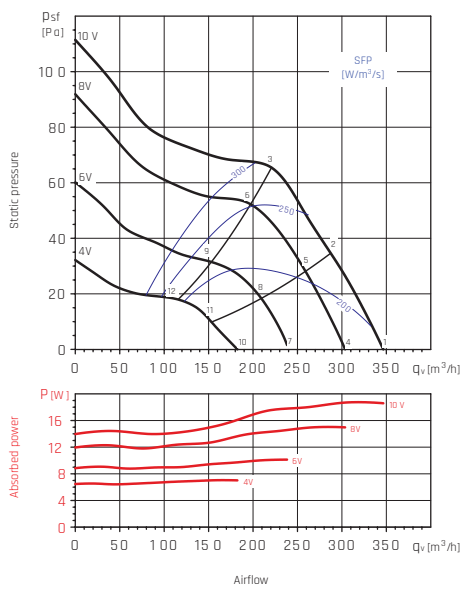
TECHNICAL CHARACTERISTICS

Type	input tension regul.	speed	maximum absorbed power	maximum absorbed current	airflow at free discharge	sound pressure level*			weight	ErP	article number
						inlet	emitted	outlet			
	[V]	[obr/min]	[W]	[A]	[m³/h]	[dB(A)]			[kg]		
TD-350/100-125 SILENT ECOWATT	10	2235	19	0,14	350	36	29	34	5	2018 P<30W	40020737
	8	2000	15	0,11	305	34	32	31			
	6	1580	10	0,07	240	28	28	26			
	4	1170	7	0,06	180	30	24	31			
TD-500/150-160 SILENT ECOWATT	10	2510	39	0,25	545	44	43	33	6	2018	40020749-02
	8	2300	32	0,23	500	41	41	30			
	6	1800	18	0,13	390	36	35	26			
	4	1320	10	0,08	240	30	31	23			
TD-1000/200 SILENT ECOWATT	10	2470	99	0,66	1000	46	53	34	8,7	2018	40020777
	8	2120	64	0,46	860	42	48	31			
	6	1660	34	0,25	675	37	43	30			
	4	1220	17	0,12	485	30	34	25			
TD-1300/250 SILENT ECOWATT	10	2460	143	0,6	1240	46	34	53	9,5	2018	40020785
	8	2035	88	0,4	1040	43	31	49			
	6	1645	54	0,3	810	38	30	43			
	4	1200	29	0,2	580	30	25	34			
TD-2000/315 SILENT ECOWATT	10	2520	247	1	1660	52	41	57	14	2018	40020791-02
	8	2075	146	0,6	1380	43	31	49			
	6	1690	85	0,4	1120	38	30	43			
	4	1230	41	0,2	790	30	25	34			

* measured at a distance of 3m from the fan.

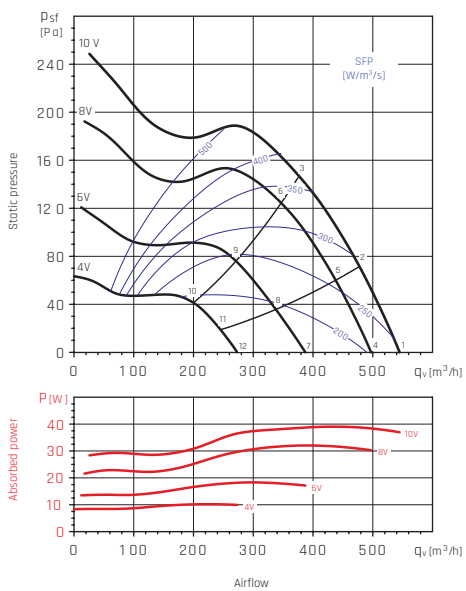
PERFORMANCE CURVES AND ACOUSTIC CHARACTERISTICS

TD-350/100-125 SILENT ECOWATT



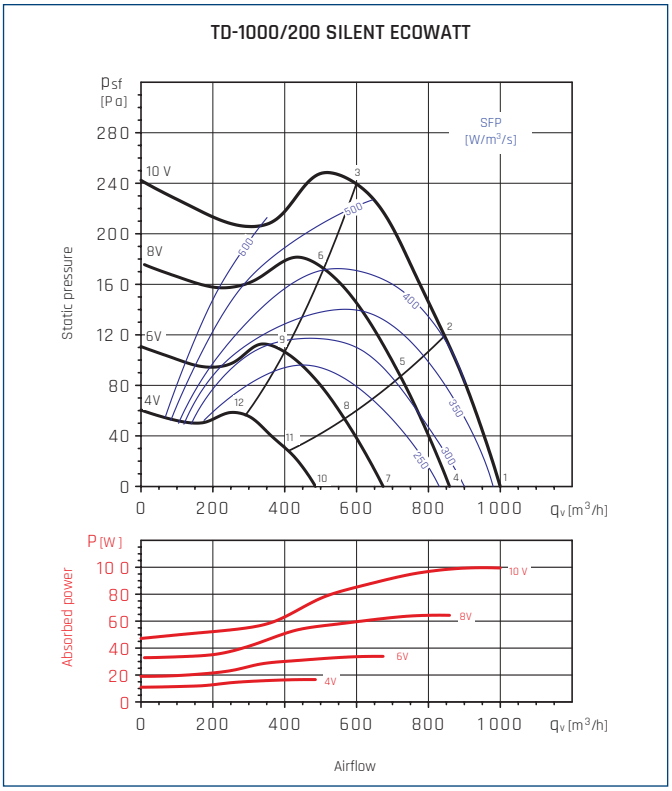
Hz/dB(A)		63	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	19	26	42	54	50	44	37	30	56
	Outlet	33	31	41	52	50	44	37	29	55
	Emitted	17	25	38	48	42	35	28	19	50
2	Inlet	19	25	42	54	49	43	37	29	56
	Outlet	29	29	41	52	49	42	36	29	54
	Emitted	17	25	38	48	40	34	27	19	49
3	Inlet	24	31	41	53	48	44	39	32	55
	Outlet	26	33	40	51	46	41	37	30	53
	Emitted	22	30	38	47	40	35	29	21	49
4	Inlet	25	26	44	53	47	41	34	27	55
	Outlet	29	28	42	54	46	40	32	26	55
	Emitted	23	28	42	50	39	32	24	19	51
5	Inlet	23	25	44	53	46	40	34	27	54
	Outlet	25	26	41	51	45	39	33	27	52
	Emitted	21	27	41	50	38	31	24	19	51
6	Inlet	25	29	41	53	46	42	36	29	54
	Outlet	24	30	40	51	44	38	34	27	52
	Emitted	23	31	38	49	38	33	26	21	50
7	Inlet	23	24	44	45	41	33	28	24	49
	Outlet	27	28	47	42	40	31	26	24	49
	Emitted	20	28	44	41	34	23	21	22	46
8	Inlet	23	26	44	44	40	32	28	24	48
	Outlet	23	28	45	42	39	30	26	24	48
	Emitted	20	30	44	40	33	22	21	22	46
9	Inlet	23	28	42	45	42	37	31	25	49
	Outlet	23	29	43	44	39	32	29	25	47
	Emitted	21	32	42	41	34	27	23	22	45
10	Inlet	19	23	49	43	36	24	26	23	50
	Outlet	18	23	37	43	36	25	24	23	45
	Emitted	23	26	51	38	32	18	23	23	51
11	Inlet	18	23	49	43	35	24	25	23	50
	Outlet	19	23	37	42	35	23	24	23	44
	Emitted	23	26	51	38	31	18	23	23	51
12	Inlet	26	24	48	43	35	26	25	24	49
	Outlet	19	23	36	41	35	24	24	23	43
	Emitted	31	27	50	38	31	20	23	23	51

TD-500/150-160 SILENT ECOWATT



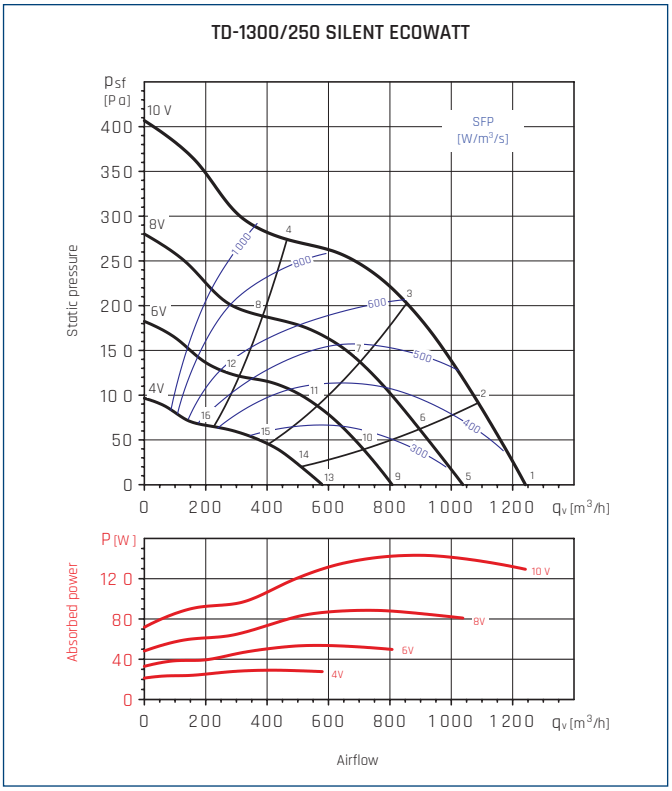
Hz/dB(A)		63	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	22	33	52	60	60	60	54	45	65
	Outlet	37	36	53	61	60	55	49	42	64
	Emitted	10	27	45	50	49	46	41	31	54
2	Inlet	22	30	50	59	59	59	50	42	64
	Outlet	35	33	52	60	59	52	45	38	63
	Emitted	11	24	43	49	48	44	37	29	53
3	Inlet	21	29	51	59	57	55	49	43	63
	Outlet	30	29	51	59	57	50	44	38	62
	Emitted	10	23	45	49	47	41	36	29	53
4	Inlet	22	31	48	56	58	58	50	41	63
	Outlet	33	33	50	57	58	53	46	38	62
	Emitted	23	28	41	47	47	44	39	27	52
5	Inlet	24	28	47	54	56	57	47	38	61
	Outlet	31	30	50	57	57	50	42	34	61
	Emitted	25	25	39	46	45	43	36	25	50
6	Inlet	23	28	45	53	55	51	45	38	59
	Outlet	25	28	49	54	54	46	40	33	58
	Emitted	23	24	38	44	45	37	34	25	49
7	Inlet	26	28	43	51	54	55	42	32	58
	Outlet	25	27	45	51	54	51	37	29	57
	Emitted	14	22	37	42	45	40	29	20	48
8	Inlet	30	25	42	50	53	49	39	31	56
	Outlet	25	26	44	50	52	42	33	27	55
	Emitted	19	20	36	40	44	34	27	19	46
9	Inlet	32	29	41	49	51	43	37	29	54
	Outlet	24	26	44	49	49	39	32	26	53
	Emitted	20	24	36	40	43	28	24	17	45
10	Inlet	19	25	37	49	46	37	29	25	51
	Outlet	19	25	37	49	46	37	29	25	51
	Emitted	26	25	36	40	41	24	21	22	44
11	Inlet	20	25	37	49	44	34	28	25	50
	Outlet	19	26	40	50	44	29	25	24	51
	Emitted	27	26	36	39	39	21	20	22	43
12	Inlet	19	26	37	50	41	31	27	24	51
	Outlet	21	26	40	50	44	28	24	24	51
	Emitted	27	27	36	41	36	19	18	21	43

PERFORMANCE CURVES AND ACOUSTIC CHARACTERISTICS



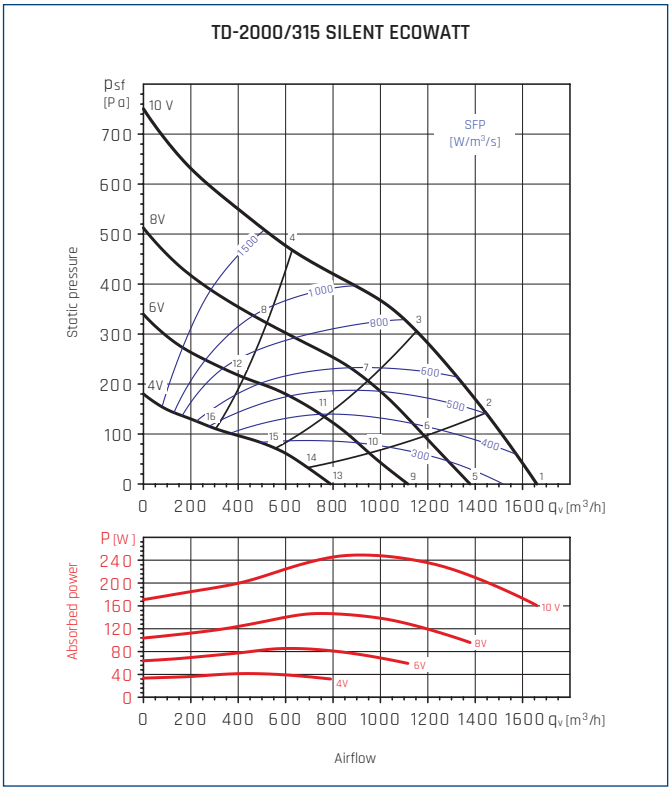
Hz/dB(A)		63	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	29	42	60	58	62	60	56	48	67
	Outlet	35	45	61	67	72	65	55	45	74
	Emitted	21	29	43	48	51	47	39	36	55
2	Inlet	30	43	58	58	61	59	54	48	66
	Outlet	30	46	61	68	71	63	53	44	73
	Emitted	22	29	41	48	51	46	37	36	54
3	Inlet	36	48	60	59	58	57	52	44	65
	Outlet	33	52	64	67	68	61	51	41	71
	Emitted	28	35	44	49	47	44	35	32	53
4	Inlet	28	40	59	54	59	56	51	43	64
	Outlet	29	42	60	62	67	59	49	39	69
	Emitted	22	25	40	39	50	44	38	35	52
5	Inlet	29	40	57	55	57	54	49	43	62
	Outlet	27	43	59	62	65	58	47	38	68
	Emitted	23	25	39	40	48	42	36	35	51
6	Inlet	34	45	57	56	54	53	48	40	62
	Outlet	30	48	60	62	63	56	46	36	67
	Emitted	28	30	38	42	45	41	34	31	48
7	Inlet	26	36	52	52	55	49	44	36	58
	Outlet	27	39	60	57	60	54	43	33	64
	Emitted	20	19	40	41	50	37	32	31	51
8	Inlet	26	37	51	51	52	47	43	36	57
	Outlet	28	40	57	57	58	52	41	33	63
	Emitted	21	20	40	41	48	36	31	31	50
9	Inlet	30	41	52	51	50	46	40	34	56
	Outlet	28	46	55	56	57	50	38	31	61
	Emitted	25	24	40	40	46	34	28	29	48
10	Inlet	23	34	45	47	45	40	34	30	51
	Outlet	24	41	48	50	50	44	33	29	55
	Emitted	14	22	37	44	42	32	30	29	47
11	Inlet	24	34	45	45	44	39	34	30	50
	Outlet	33	40	48	49	49	43	33	29	54
	Emitted	14	22	37	41	40	31	30	29	45
12	Inlet	26	37	45	43	43	37	32	30	49
	Outlet	26	41	48	47	48	41	31	29	53
	Emitted	17	25	36	39	39	29	27	29	44

PERFORMANCE CURVES AND ACOUSTIC CHARACTERISTICS



Hz/dB(A)		63	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	29	42	60	58	62	60	56	48	67
	Outlet	35	45	61	67	72	65	55	45	74
	Emitted	21	29	43	48	51	47	39	36	55
2	Inlet	30	42	58	58	62	59	55	48	66
	Outlet	32	45	61	67	71	64	54	45	73
	Emitted	22	29	42	48	51	46	38	36	54
3	Inlet	33	45	59	58	59	58	53	46	65
	Outlet	32	49	62	67	69	62	52	43	72
	Emitted	25	32	43	49	49	45	36	34	53
4	Inlet	36	48	60	59	58	57	52	44	65
	Outlet	33	52	64	67	68	61	51	41	71
	Emitted	28	35	44	49	47	44	35	32	53
5	Inlet	28	40	59	54	59	56	51	43	64
	Outlet	29	42	60	62	67	59	49	39	69
	Emitted	22	25	40	39	50	44	38	35	52
6	Inlet	28	40	58	55	58	54	50	43	63
	Outlet	28	43	60	62	66	58	48	38	69
	Emitted	23	25	39	40	49	43	37	35	51
7	Inlet	31	43	57	56	56	53	49	41	62
	Outlet	29	46	60	63	64	57	47	37	68
	Emitted	26	28	39	42	47	41	35	33	49
8	Inlet	34	45	56	56	53	52	47	39	61
	Outlet	30	48	59	62	62	56	45	35	66
	Emitted	28	30	38	41	44	40	34	31	48
9	Inlet	26	36	52	52	55	49	44	36	58
	Outlet	27	39	60	57	60	54	43	33	64
	Emitted	20	19	40	41	50	37	32	31	51
10	Inlet	26	37	52	52	53	48	44	36	58
	Outlet	27	40	58	57	59	53	42	33	63
	Emitted	21	20	40	41	49	36	31	31	50
11	Inlet	29	40	52	52	52	48	43	36	58
	Outlet	28	43	57	57	58	52	41	32	63
	Emitted	23	23	40	41	47	36	30	30	49
12	Inlet	31	42	52	51	50	46	40	33	56
	Outlet	28	47	55	56	56	50	38	31	61
	Emitted	26	25	40	40	46	34	28	28	48
13	Inlet	23	34	45	47	45	40	34	30	51
	Outlet	24	41	48	50	50	44	33	29	55
	Emitted	14	22	37	44	42	32	30	29	47
14	Inlet	24	34	45	45	44	39	34	30	50
	Outlet	30	41	48	49	49	43	33	29	54
	Emitted	14	22	37	42	40	31	30	29	45
15	Inlet	25	35	45	44	43	38	34	30	50
	Outlet	30	40	48	49	49	42	32	29	54
	Emitted	16	23	37	40	40	30	29	29	44
16	Inlet	26	37	44	43	42	36	32	30	49
	Outlet	26	41	47	47	47	40	30	29	52
	Emitted	16	25	36	39	38	29	27	29	43

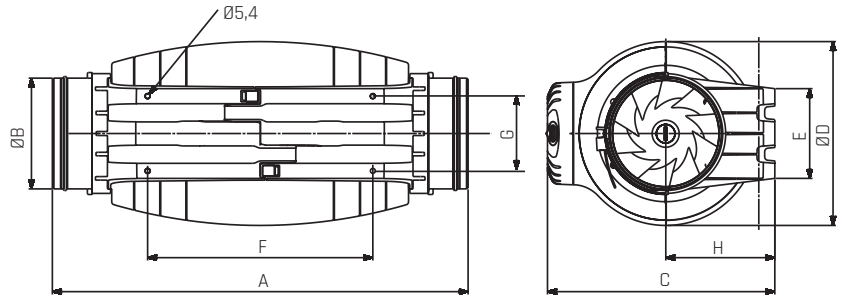
PERFORMANCE CURVES AND ACOUSTIC CHARACTERISTICS



Hz/dB(A)		63	125	250	500	1000	2000	4000	8000	L_{WA}
1	Inlet	35	50	64	63	68	64	57	52	71
	Outlet	37	54	64	70	74	66	52	48	76
	Emitted	22	37	48	48	57	54	45	39	60
2	Inlet	35	51	66	64	68	64	58	52	72
	Outlet	35	55	65	71	74	66	51	48	77
	Emitted	22	38	51	49	58	54	46	39	61
3	Inlet	37	54	71	64	68	64	58	52	74
	Outlet	35	59	70	72	72	65	50	47	77
	Emitted	24	42	56	49	58	54	46	39	61
4	Inlet	44	59	67	63	64	60	55	49	71
	Outlet	40	65	66	70	69	61	49	47	74
	Emitted	32	46	52	48	53	51	43	36	58
5	Inlet	32	47	61	59	63	58	52	44	67
	Outlet	31	51	60	65	70	60	46	41	72
	Emitted	21	34	42	45	52	48	40	32	55
6	Inlet	33	50	63	59	63	58	53	45	63
	Outlet	30	54	62	66	69	60	45	41	69
	Emitted	21	36	44	45	52	48	41	33	51
7	Inlet	34	60	63	59	63	58	53	45	62
	Outlet	32	62	64	67	67	59	44	40	68
	Emitted	23	46	45	45	52	48	40	33	49
8	Inlet	40	54	63	55	58	54	49	42	65
	Outlet	36	60	62	64	63	56	43	41	69
	Emitted	28	40	44	41	47	44	37	29	51
9	Inlet	30	45	57	55	58	53	46	37	62
	Outlet	28	49	58	61	65	54	39	34	67
	Emitted	22	33	40	42	47	42	34	26	50
10	Inlet	31	47	59	56	58	54	48	39	58
	Outlet	27	51	58	62	64	54	39	35	63
	Emitted	23	35	42	42	47	43	35	28	50
11	Inlet	32	52	60	55	58	53	47	39	58
	Outlet	30	58	57	62	61	54	38	34	63
	Emitted	24	40	43	42	47	43	35	28	49
12	Inlet	39	50	57	51	53	50	44	36	60
	Outlet	35	54	56	59	58	51	38	35	63
	Emitted	31	38	40	37	42	39	31	24	47
13	Inlet	28	41	50	49	48	45	36	30	55
	Outlet	26	46	48	54	52	45	32	30	58
	Emitted	20	28	35	39	38	35	28	26	43
14	Inlet	29	44	52	49	49	45	37	30	50
	Outlet	26	47	50	54	52	45	32	30	54
	Emitted	21	30	37	38	38	35	29	27	45
15	Inlet	33	47	52	48	50	45	37	31	50
	Outlet	28	49	52	54	52	45	32	30	54
	Emitted	24	33	38	37	39	35	29	27	44
16	Inlet	37	43	48	46	45	43	35	30	53
	Outlet	32	47	48	51	49	42	32	30	55
	Emitted	28	29	34	35	34	33	27	26	41

DIMENSIONS [mm]

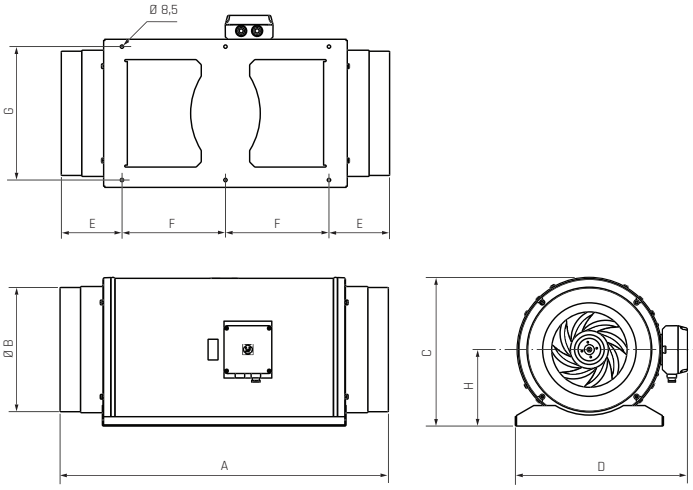
TD-350 to TD-1000 SILENT ECOWATT



Type	A	ØB	C	ØD	E	F	G	H
TD-350/100	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-1000/200	568	198	327	264	145	340	129	164

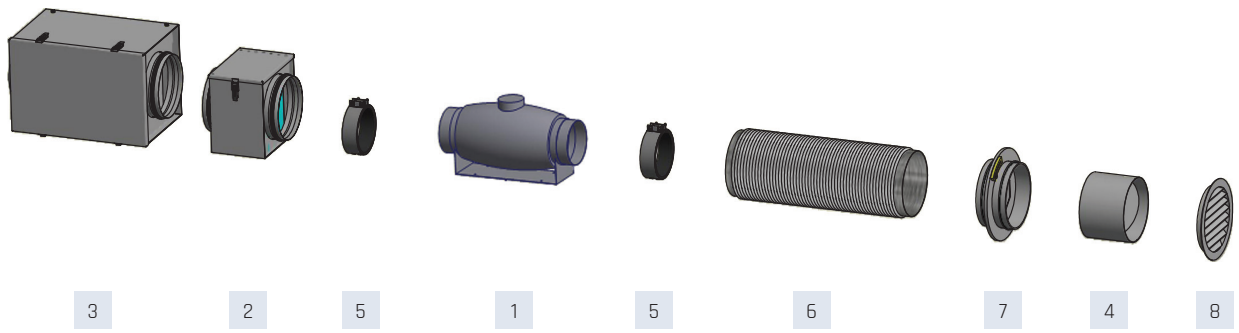
* Provided with a rubber gasket for installation in 160mm ducts.

TD-1300 to TD-2000 SILENT ECOWATT



Typ	A	B	C	D	E	F	G	H
TD-1300/250	680	248	331	387	140	200	280	171
TD-2000/315	825	312	373	432	152	260	335	192

ACCESSORY ASSEMBLY



1	2	3				
Type	channel filter DF	channel filter DF-K				
			cartridge filter to DF-K			
			EU3	EU5	EU7	EU9
TD-350/100 SILENT ECOWATT	40520610	40521710	40520800	40520805	40520810	40520820
TD-350/125 SILENT ECOWATT	40520620	40521715	40520800	40520805	40520810	40520820
TD-500/150-160 SILENT ECOWATT	40520630	40521720	40520800	40520805	40520810	40520820
TD-1000/200 SILENT ECOWATT	40520640	40521725	40520800	40520805	40520810	40520820
TD-1300/250 SILENT ECOWATT	40520650	40521730	40520800	40520805	40520810	40520820
TD-2000/315 SILENT ECOWATT	40520660	40521735	40520830	40520835	40520840	-

1	4	5	6		7	8
Type	backdraft shutter CAR-PL	anti-vibration connector ACOP PL	flexible silencer AKU COMP		throttle IRIS	vent KWO
			0,6m	1,2m		
TD-350/100 SILENT ECOWATT	40521010-01	40521810	40521510	40521610	19527100	40522520
TD-350/125 SILENT ECOWATT	40521020-01	40521815	40521520	40521620	19527125	40522530
TD-500/150-160 SILENT ECOWATT	40521029-01 40521030-01	40521820	40521530	40521630	19527160	40522540
TD-1000/200 SILENT ECOWATT	40521040-01	40521825	40521540	40521640	19527200	40522550
TD-1300/250 SILENT ECOWATT	40521050-01	40521830	40521550	40521650	19527250	40522560
TD-2000/315 SILENT ECOWATT	40521060-01	40521835	40521560	40521660	19527315	40522570


channel filter **DF**
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channel filter **DFK...+EU**
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backdraft shutt. **CAR-PL**
p. 247


anti-vibr connect. **ACOP-PL**
p. 246


flexible silencer **AKU-COMP**
p. 241


throttle **IRIS**
p. 248


vent **KWO**
p. 661


diffuser **AKT/AKK**
p. 658


heater **DH/DH-R**
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ELECTRICAL ACCESSORIES

Wentylator	wall thermostat	duct thermostat	air quality sensor	humidistat	regulator
	TS	TK-1	SQA	HIG-2	REB-ECOWATT
TD-350/100 SILENT ECOWATT	40025345	40025330	40025140	40025150	40025005
TD-350/125 SILENT ECOWATT	40025345	40025330	40025140	40025150	40025005
TD-500/150-160 SILENT ECOWATT	40025345	40025330	40025140	40025150	40025005
TD-1000/200 SILENT ECOWATT	40025345	40025330	40025140	40025150	40025005
TD-1300/250 SILENT ECOWATT	40025345	40025330	40025140	40025150	40025005
TD-2000/315 SILENT ECOWATT	40025345	40025330	40025140	40025150	40025005


thermostat **TS**
p. 650


thermostat **TK-1**
p. 650


sensor **SQA**
p. 645


humidistat **HIG-2**
p. 645


regulator **REB ECOWATT**
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ERP CHARACTERISTICS

RVU*		
	Name	TD-350/100-125 SILENT ECOWATT
a	supplier name	VENTURE INDUSTRIES / SOLER&PALAU
b	article number	40020737
c	SEC average [kWh/m².a]	-15,41
c	SEC cold	-31,81
c	SEC warm	-6,01
c	SEC class	not applicable
d	device category	RVU
d	device type	UVU
e	type of drive	variable speed drive
f	type of heat recovery system	not applicable
g	thermal efficiency of heat recovery [%]	not applicable
h	maximum flow rate [m³/h]	242,62
i	electric power input [W]	17,88
j	sound power level [dB(A)]	45
k	reference flow rate [m³/s]	0,05
l	reference pressure difference [Pa]	28,55
m	SPI [W/m³/h]	0,06
n	control factor	1
o	maximum external leakage for BVU [%]	
p	mixing rate	not applicable
q	position of visual filter warning	not applicable
r	instructions to install supply grilles	not applicable
s	internet address	www.ventur.eu www.solerpalau.com
t	airflow sensitivity to pressure variation	not applicable
u	Indoor/outdoor air tightness [m³/h]	not applicable
v	annual electricity consumption - average climate [kWh/a]	69,75
v	annual electricity consumption - warm climate [kWh/a]	69,75
v	annual electricity consumption - cold climate [kWh/a]	69,75
w	annual heating saved - average climate [kWh/a]	33,55
w	annual heating saved - warm climate [kWh/a]	17,15
w	annual heating saved - cold climate [kWh/a]	7,76
	MISC	1,1
	x-value	2

* RVU - "residential ventilation unit" - according to COMMISSION REGULATION (EU) No 1253/2014

ERP CHARACTERISTICS

	NRVU*				
	Name	TD-500/150-160 SILENT ECOWATT	TD-1000/200 SILENT ECOWATT	TD-1300/250 SILENT ECOWATT	TD-2000/315 SILENT ECOWATT
a	supplier name	VENTURE INDUSTRIES/ SOLER&PALAU	VENTURE INDUSTRIES/ SOLER&PALAU	VENTURE INDUSTRIES/ SOLER&PALAU	VENTURE INDUSTRIES/ SOLER&PALAU
b	article number	40020749-02	40020777	40020785	40020791-02
c	device category	NRVU	NRVU	NRVU	NRVU
c	device type	UVU	UVU	UVU	UVU
d	type of drive	variable speed drive	variable speed drive	variable speed drive	variable speed drive
e	type of heat recovery system	not applicable	not applicable	not applicable	not applicable
f	thermal efficiency of heat recovery [%]	not applicable	not applicable	not applicable	not applicable
g	reference flow rate in NRVU [m^3/s]	0,09	0,16	0,21	0,29
h	effective electric power input [kW]	0,04	0,08	0,14	0,25
i	SFP_{int} [$W/(m^3/s)$]	not applicable	not applicable	0,68	0,84
j	face velocity [m/s]	5,62	5,06	4,22	3,7
k	Δps, ext [Pa]	176,3	243,5	236,9	349,5
l	Δps, int [Pa]	not applicable	not applicable	not applicable	not applicable
m	Δps, add [Pa]	not applicable	not applicable	not applicable	not applicable
n	static efficiency of fans [%]	51,6	54,7	40	46,9
o	maximum external leakage rate [%]	3	5	5	0,3
p	maximum internal leakage rate [%]	not applicable	not applicable	not applicable	not applicable
q	energy performance	not applicable	not applicable	not applicable	not applicable
r	visual filter warning	not applicable	not applicable	not applicable	not applicable
s	L_{WA} [dB(A)]	53	53	53	61
	internet address	www.ventur.eu www.solerpalau.com	www.ventur.eu www.solerpalau.com	www.ventur.eu www.solerpalau.com	www.ventur.eu www.solerpalau.com

* NRVU - "non-residential ventilation unit" - according to COMMISSION REGULATION (EU) No 1254/2014.