TD-SILENT - MODELS 160 TO 1000

Low profile "Mixed-flow" fans with sound-absorbent insulation. Extremely quiet. Certified of Approval Noise Abatement Society (TD-350, TD-500, TD-800 and TD-1000 models).
Manufactured in plastic material, with a specifically designed internal skin to direct the sound waves at 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 360º, to facilitate easy connection of the power cable.

Motors

Speed controlable 230V-50Hz motor, of two speed or 3-speed motors (depending on the models). IP44.
Motors are 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.

Additional information

The models offer solutions to ventilation problems, especially in places where people work and low sound level is required.

TD-SILENT-T models

TD-SILENT versions fitted with a run-on-timer adjustable within 1 and 30 minutes and onespeed or 3-speed motors (depending on the model) not suitable for speed control.

(Models 350, 500, 800 and 1000)

TD-SILENT - MODELS 1300 AND 2000

Low profile "Mixed-flow" fans with soundabsorbent insulation. Extremely quiet. Certified of Approval Noise Abatement Society (TD-2000 model). Constructed from sheet steel with epoxy polyester paint, acoustic insulation (MO) glass fibre, within outer shell.
Aerodynamic inlet to improve airflow and reduce sound. Detachable fan unit without demounting duct connections. IP44. External terminal box IP55.
Removeable fan body with 3 speed motor, single phase 230V-50/60Hz speed controlable, Class F, external rotor aluminium motor with capacitor and thermal protection.

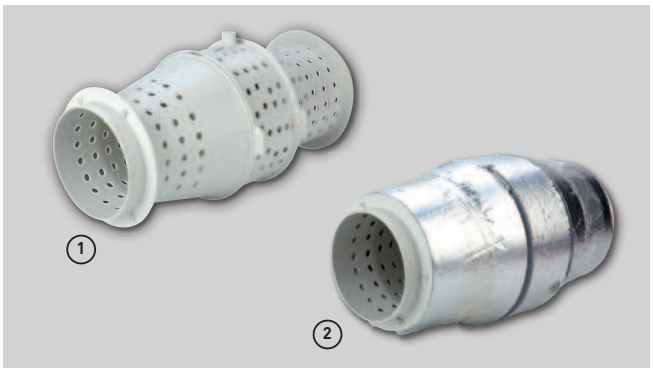
Additional information

The models offer solutions to ventilation problems, especially in places where people work and low sound level is required.

(Model 2000)

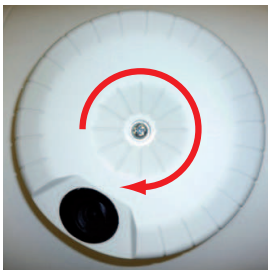
MODELS 250 TO 1000

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



Low noise level
Sound waves produced inside the TD, are directed through the perforated inner skin (1) and absorbed by the layer of sound absorbent material (2)

Easymaintenance
Removable motor-body assembly to easy cleaning and re-pairing without touching the ducts. Support plastic brackets simplify the operation.



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

Rubber seals
Bi-material inlet and outlet incorporating a rubber seal to facilitate installation and absorb vibrations.

MODELS WITH RUN-ON-TIMER
Models TD-SILENT-T (from models 250 to 1000) are fitted with an adjustable timer between 1 and 30 minutes and are supplied with a one-speed or 3-speed motors (depending on the model) not suitable for speed control.

Support bracket
Support bracket for installing on a wall or ceiling, incorporating twin-material support brackets for the motor section that absorbs vibration.

Easy to mount

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.

TECHNICAL CHARACTERISTICS

TD-SILENT	Speed (r.p.m.)	Maximum absorbed power (W)	Maximum absorbed current (A)	Maximum airflow (m^3/h)	Sound pressure level* (dB(A))	Min-Max air temperature (°C)	Weight (kg)	Duct diameter (mm)	3-speed switch	Speed controller	Wiring diagram** (nº)
TD-160/100 N SILENT	2400	29	0,17	180	24	-20/+40	1,4	100	COM-2 REGUL-2	RMB-1,5 REB-1	9, 10
	2200	18	0,11	150	22						
TD-250/100 SILENT	2210	27	0,12	250	25	-20/+40	5,4	100	COM-2 REGUL-2	RMB-1,5 REB-1	9, 10
	1680	21	0,1	200	20						
TD-350/125 SILENT	2100	27	0,12	330	23	-20/+40	5	125	COM-2 REGUL-2	RMB-1,5 REB-1	9, 10
	1650	21	0,1	260	18						
TD-500/150-160 SILENT 3V	2480	59	0,26	550	27	-20/+60	6	150/160	COM-3 INTER 4P	RMB-1,5 REB-1	9, 10
	2060	50	0,22	450	22						
	1610	45	0,2	350	17						
TD-800/200 SILENT 3V	2170	102	0,5	910	28	-20/+60	8,7	200	COM-3 INTER 4P	RMB-1,5 REB-1	9, 10
	1870	92	0,47	780	24						
	1660	90	0,46	690	22						
TD-1000/200 SILENT 3V	2450	130	0,55	1.040	29	-20/+60	8,7	200	COM-3 INTER 4P	RMB-1,5 REB-1	9, 10
	2210	127	0,55	910	27						
	1920	122	0,53	790	24						
TD-1300/250 SILENT 3V	2530	204	0,85	1.320	36	-20/+60	20	250	COM-3 INTER 4P	RMB-1,5 REB-1	12, 13
	2230	163	0,68	1.160	33						
	2030	144	0,6	1.040	31						
TD-2000/315 SILENT 3V	2670	293	1,25	1.770	39	-40/+60	25	315	COM-3 INTER 4P	RMB-1,5 REB-2,5	12, 13
	2490	232	0,97	1.610	38						
	2240	190	0,78	1.480	36						

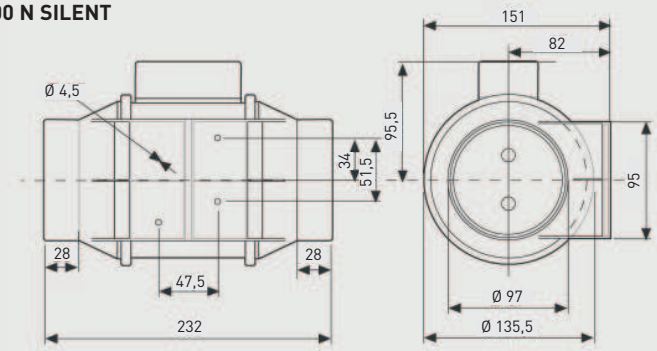
* Sound pressure level radiated at 3 m at free air conditions with rigid ducts at the inlet and at the outlet.
** See section of Wiring Diagrams.

TD-SILENT	Speed (r.p.m.)	Maximum absorbed power (W)	Maximum absorbed current (A)	Maximum airflow (m^3/h)	Sound pressure level* (dB(A))	Min-Max air temperature (°C)	Weight (kg)	Duct diameter (mm)
TD-160/100 NT SILENT	2400	29	0,17	180	24	-20/+40	1,4	100
TD-250/100 SILENT T	2140	28	0,12	250	25	-20/+40	5,4	100
TD-350/125 SILENT T	2050	26	0,11	330	23	-20/+40	5	125
TD-500/150-160 SILENT T 3V**	2590	53	0,21	560	27	-20/+60	6	150
	2150	44	0,19	470	22			
	1820	41	0,18	390	17			
TD-800/200 SILENT T 3V**	2170	102	0,5	910	28	-20/+60	8,7	200
	1870	92	0,47	780	24			
	1660	90	0,46	690	22			
TD-1000/200 SILENT T 3V**	2450	130	0,55	1.040	29	-20/+60	8,7	200
	2210	127	0,55	910	27			
	1920	122	0,53	790	24			

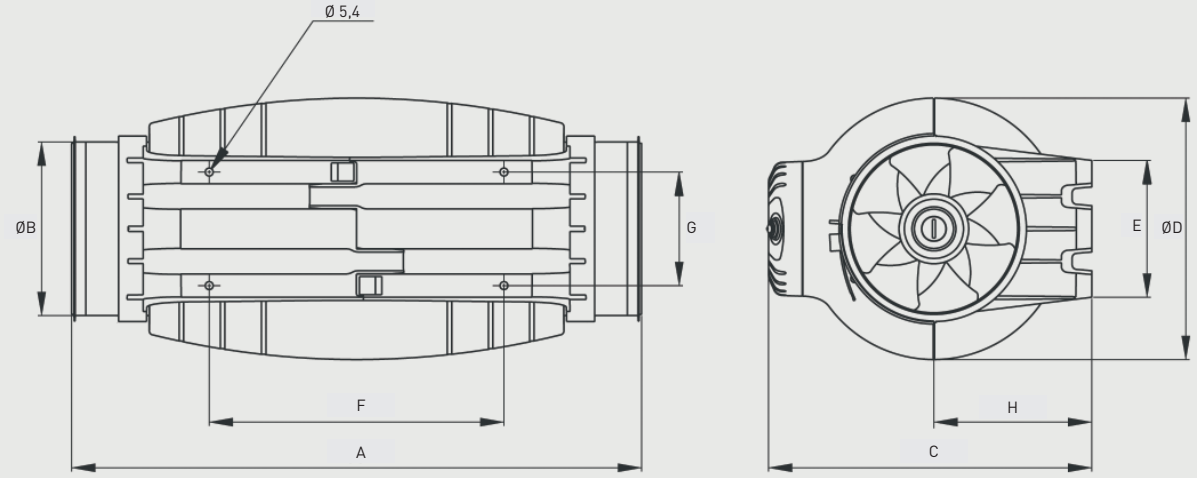
* Radiated sound pressure level measured at 3 m, in free field conditions, with rigid ducts at the inlet and outlet.
** Temporisation only on high speed.

DIMENSIONS (mm)

TD-160/100 N SILENT



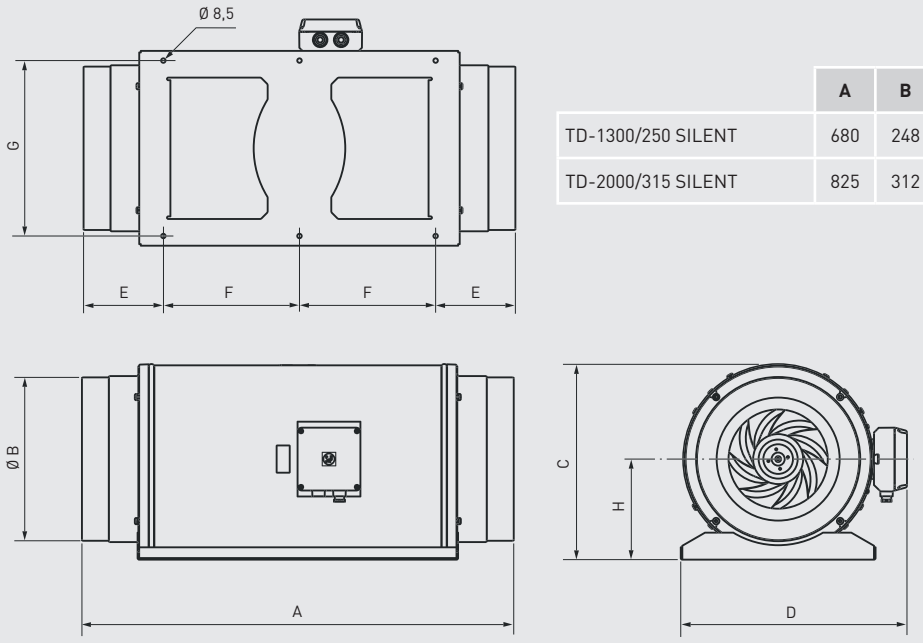
TD-SILENT 250 to 1000



	A	ØB	C	ØD	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.

TD-SILENT 1300 and 2000



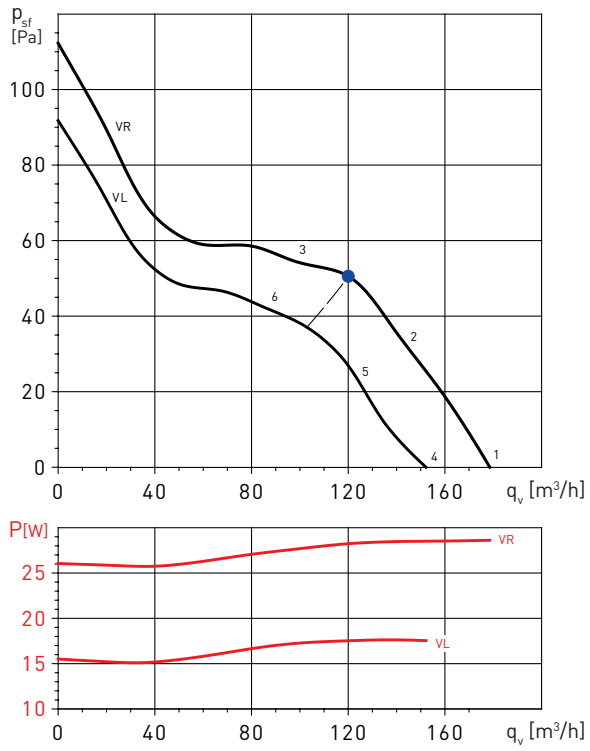
	A	B	C	D	E	F	G	H
TD-1300/250 SILENT	680	248	331	387	140	200	280	171
TD-2000/315 SILENT	825	312	373	432	152	260	335	192

PERFORMANCE CURVES

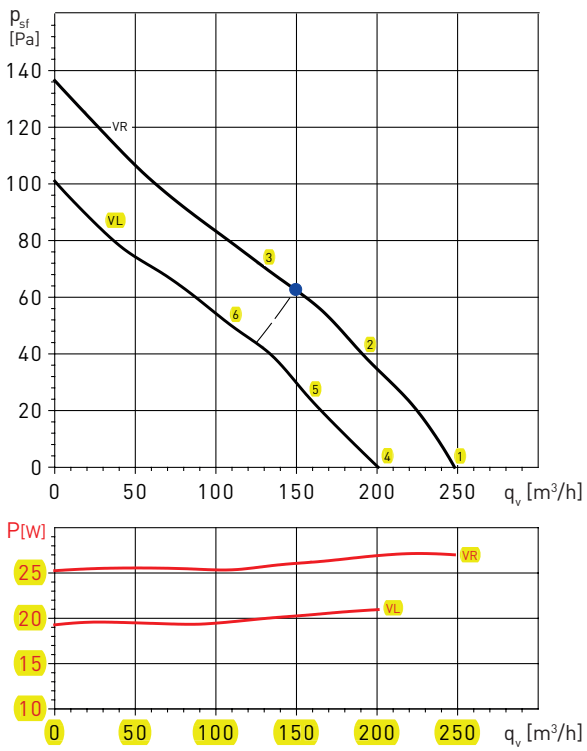
- q_v: Airflow in m^3/h.
- p_{sf}: Static pressure in Pa.
- Dry air at 20ºC and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.
- SFP: Specific fan power in W/m3/s (blue curves).

HS : High speed
MS: Medium speed
LS: Low speed

TD-160/100N SILENT



TD-250/100 SILENT



Sound power level spectrums in dB(A)

Working point		63	125	250	500	1.000	2.000	4.000	8.000	LwA
1	Inlet	22	34	41	47	53	49	40	31	56
	Outlet	22	43	38	50	51	47	41	32	55
	Break-out	21	27	41	35	36	40	33	22	45
2	Inlet	21	36	39	47	52	48	39	30	55
	Outlet	22	42	37	50	50	46	41	31	54
	Break-out	20	29	39	35	35	39	32	21	44
3	Inlet	24	37	41	48	52	47	39	30	55
	Outlet	27	42	38	50	51	45	40	31	55
	Break-out	23	30	41	36	35	38	32	21	45
4	Inlet	22	31	37	45	51	46	38	29	53
	Outlet	22	38	34	48	49	45	39	29	53
	Break-out	19	27	36	33	35	38	31	21	42
5	Inlet	21	33	37	45	50	46	37	28	53
	Outlet	22	38	35	48	48	44	38	29	52
	Break-out	18	29	36	33	34	38	30	20	42
6	Inlet	23	34	39	45	50	45	37	28	53
	Outlet	26	38	36	48	49	44	38	28	53
	Break-out	20	30	38	33	34	37	30	20	43

Sound power level spectrums in dB(A)

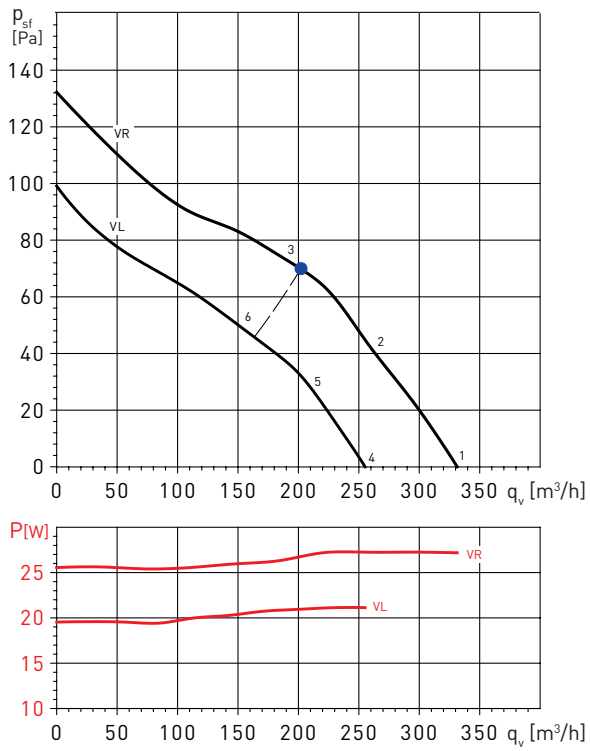
Working point		63	125	250	500	1.000	2.000	4.000	8.000	LwA
1	Inlet	23	30	46	53	52	44	38	30	57
	Outlet	26	32	45	54	47	41	36	29	55
	Break-out	22	27	41	42	36	31	25	18	46
2	Inlet	24	32	46	52	52	45	38	30	56
	Outlet	24	33	44	52	46	41	37	29	54
	Break-out	23	29	41	41	36	31	25	18	45
3	Inlet	25	33	42	51	55	47	41	34	57
	Outlet	25	35	40	51	49	42	39	32	54
	Break-out	23	30	37	40	39	34	27	22	44
4	Inlet	23	33	42	47	48	38	31	25	51
	Outlet	23	33	40	47	42	34	29	24	49
	Break-out	20	30	36	35	32	24	18	15	40
5	Inlet	25	33	43	46	51	40	33	26	53
	Outlet	23	34	42	47	44	36	32	26	50
	Break-out	22	31	37	35	34	26	19	16	41
6	Inlet	24	31	39	48	51	43	36	28	54
	Outlet	25	33	38	49	45	38	34	27	51
	Break-out	22	28	32	37	35	29	22	19	41

PERFORMANCE CURVES

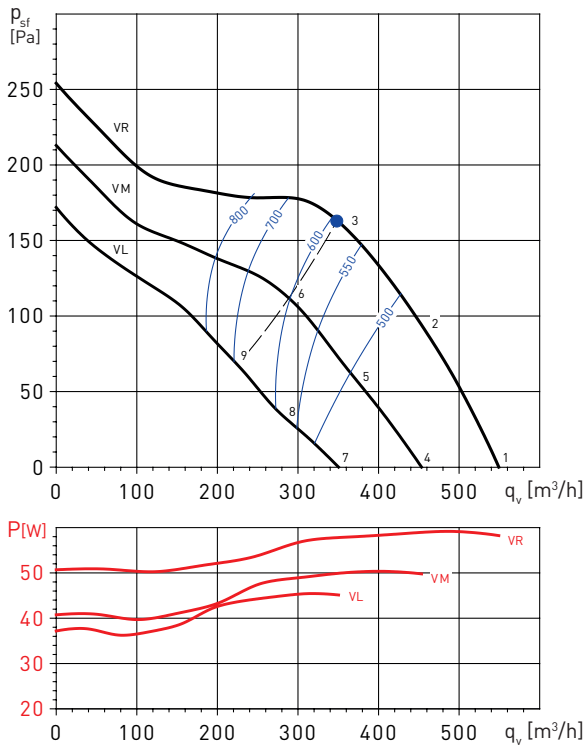
- q_v: Airflow in m^3/h.
- p_{sf}: Static pressure in Pa.
- Dry air at 20ºC and 760 mmHg.
- Performance data in accordance with ISO 5801 and AMCA 210-99 Standards.
- SFP: Specific fan power in W/m3/s (blue curves).

HS : High speed
MS: Medium speed
LS: Low speed

TD-350/125 SILENT



TD-500/150-160 SILENT 3V



Sound power level spectrums in dB(A)

Working point		63	125	250	500	1.000	2.000	4.000	8.000	LwA
1	Inlet	22	26	41	51	51	43	36	29	54
	Outlet	27	28	42	50	51	44	36	28	55
	Break-out	19	23	34	40	38	30	20	14	43
2	Inlet	21	25	41	50	50	42	37	29	53
	Outlet	25	27	40	49	50	41	35	25	53
	Break-out	18	22	34	39	37	29	21	15	42
3	Inlet	23	30	45	53	51	46	40	31	56
	Outlet	23	31	44	51	49	43	38	31	54
	Break-out	20	27	38	42	39	32	24	17	45
4	Inlet	21	24	39	45	46	36	29	25	49
	Outlet	23	25	39	43	44	35	29	24	48
	Break-out	18	25	32	35	33	22	14	13	39
5	Inlet	21	25	38	44	46	35	31	25	49
	Outlet	22	26	37	42	43	33	29	24	47
	Break-out	18	25	31	34	34	22	16	13	38
6	Inlet	23	29	40	49	49	41	35	27	52
	Outlet	24	34	40	47	46	38	33	26	50
	Break-out	19	30	33	38	36	27	20	16	42

Sound power level spectrums in dB(A)

Working point		63	125	250	500	1.000	2.000	4.000	8.000	LwA
1	Inlet	25	35	52	59	59	58	52	46	64
	Outlet	38	38	56	59	58	54	49	43	63
	Break-out	18	28	41	40	43	41	33	28	47
2	Inlet	24	34	50	57	56	55	48	41	62
	Outlet	33	36	54	56	57	51	45	38	61
	Break-out	17	26	39	38	40	39	29	24	45
3	Inlet	25	35	49	59	56	54	48	41	62
	Outlet	26	36	53	59	57	49	44	28	62
	Break-out	18	28	38	40	40	37	29	24	45
4	Inlet	20	31	48	54	54	53	48	41	60
	Outlet	33	34	51	54	54	49	45	39	59
	Break-out	13	23	36	36	38	36	29	24	43
5	Inlet	19	29	45	52	52	51	43	36	57
	Outlet	28	31	49	52	53	46	40	34	57
	Break-out	12	21	34	33	35	34	24	19	40
6	Inlet	20	30	45	54	51	50	43	36	57
	Outlet	21	32	49	54	52	45	39	24	57
	Break-out	14	23	33	35	35	33	24	19	40
7	Inlet	15	25	42	49	49	48	42	36	54
	Outlet	28	28	46	49	48	44	39	33	54
	Break-out	8	18	31	30	33	31	23	18	38
8	Inlet	13	23	40	46	46	45	37	30	51
	Outlet	22	25	43	46	47	40	34	28	51
	Break-out	7	16	28	28	29	28	18	13	34
9	Inlet	15	25	39	49	46	44	38	31	52
	Outlet	16	26	43	49	47	39	34	18	52
	Break-out	8	17	28	30	29	27	19	13	35