



## FEATURES

The Silent Series is a low profile mixed-flow in-line fan that produces low noise when in operation. This breakthrough in noise reduction is due to a technically advanced design and internal construction. Sound waves produced inside the fan are captured by a sound-absorbent internal membrane, resulting in an efficient low profile fan that operates very quietly. It is particularly suitable for projects such as hotels, offices and libraries where noise can be an issue.

### Construction

**All sizes** - Provided with an integral mounting foot.

**250/100, 350/125, 500/150 and 800/200 models** - casings manufactured from reinforced injection moulded polypropylene plastic. Impellers are made of injection moulded plastic and are a mixed-flow design.

**1300/250 and 2000/315 models** - casings manufactured from sheet steel and finished in a protective epoxy polyester paint. Impellers are made of aluminium and are a mixed-flow design.

All sizes are provided with an integral mounting foot.

### Motors

Type - 2 speed, squirrel cage induction motor.

Electricity supply - 220-240V, single-phase, 50Hz

Bearings - Ball type for all models

Speed controllable using VA type speed controller in high speed only. See pages N-3/4 of the Fans by Fantech catalogue for details on these motors.

### Internal Thermal Protection

Manual-reset thermal overload protection device in accordance with mandatory requirement for in-line duct fans AS/NZS60335-2-80:2004

### Testing

Air flow tests to ISO5801: 2007

Noise to ISO13347-3, 2004

### Special Features

**All sizes** - Fan body can be removed from support bracket and mounting foot without disturbing the connecting ductwork.

Fitted with plug and lead, wired in high speed.

**250/100, 350/125, 500/150 and 800/200 models** - Fan body removed from the support bracket and mounting foot by releasing the quick release plastic straps.

Vibration absorbing elements are integrated into advanced composite body design.

360° rotating junction box makes connection to power easier in tight spaces.

**1300/250 and 2000/315 models** - Fan body removed from support bracket and mounting foot by removing 4 screws at each end of the fan.

Aerodynamic inlet to improve air-flow and reduce sound.

### Wiring Diagram

See page M-9, diagram ER10 in the Fans by Fantech catalogue.

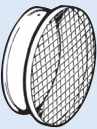

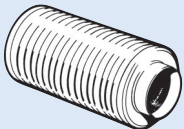
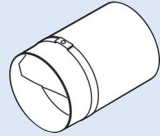

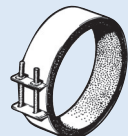
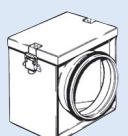

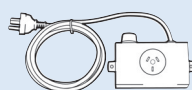
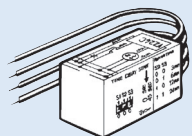
## SUGGESTED SPECIFICATION

The In-line fans shall be of the Silent Series as supplied by Fantech Pty. Ltd.

Impellers shall be of mixed flow design and driven by 2-speed single-phase motors with integral thermal protection.

All fans shall be fully tested to ISO5801: 2007 for air flow and ISO13347-3, 2004 for noise.

## ANCILLARY EQUIPMENT

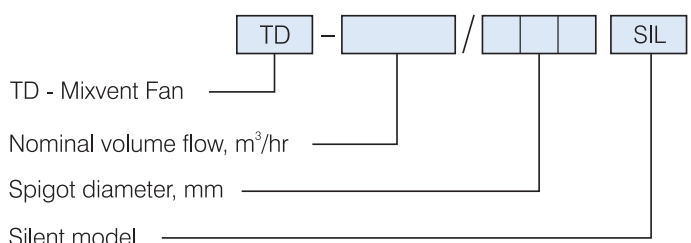
 MRJ - Inlet grille Ref. B-9	 TSS1 - 2-Speed switch Ref. B-9	 CC - Attenuators Ref. H-3
 SJK - Backdraft Damper Ref. J-3 (not applicable for 250 and 315 sizes)	 RSK - Backdraft Dampers Ref. J-3	 FC - Fast clamp Ref. J-5
 FGR - Filter Unit Ref. J-10	 VA - Speed controller Ref. L-6	 Plug-In Run-on Timer and Speed Controller Ref. L-7
 VZ - Run-on timer Ref. L-10		

## TECHNICAL DATA

Model Number	Fan Speed rev/sec	Avg. dB(A) @ 3m	TD.. 1 ph.		Max. amb °C	App. wt. kg
TD..			Watts	Amps		
<b>250/100SIL</b>	37 / 31	36 / 31	24 / 18	0.11 / 0.10	40	5.4
<b>350/125SIL</b>	38 / 32	33 / 34	30 / 22	0.13 / 0.10	40	4.9
<b>500/150SIL</b>	42 / 33	40 / 33	50 / 44	0.22 / 0.19	60	6.0
<b>800/200SIL</b>	46 / 41	42 / 40	95 / 90	0.45 / 0.43	60	8.7
<b>1300/250SIL</b>	42 / 36	47 / 42	197 / 145	0.83 / 0.61	60	20
<b>2000/315SIL</b>	44 / 38	50 / 44	297 / 191	1.28 / 0.79	60	25

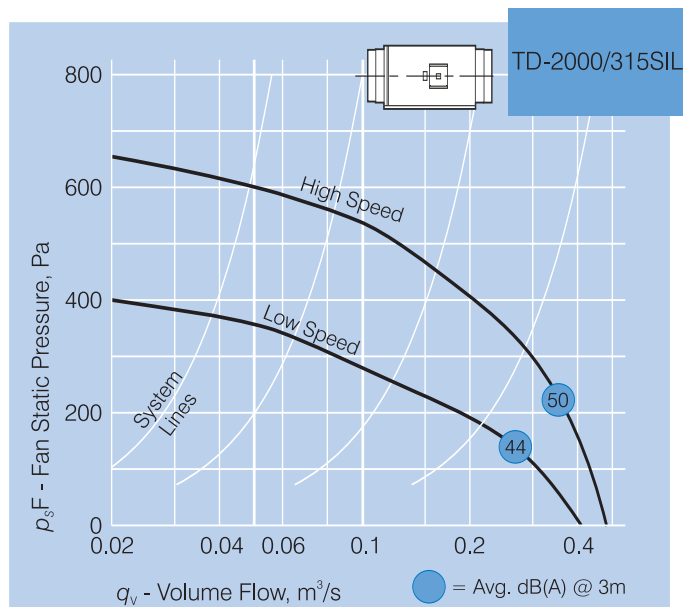
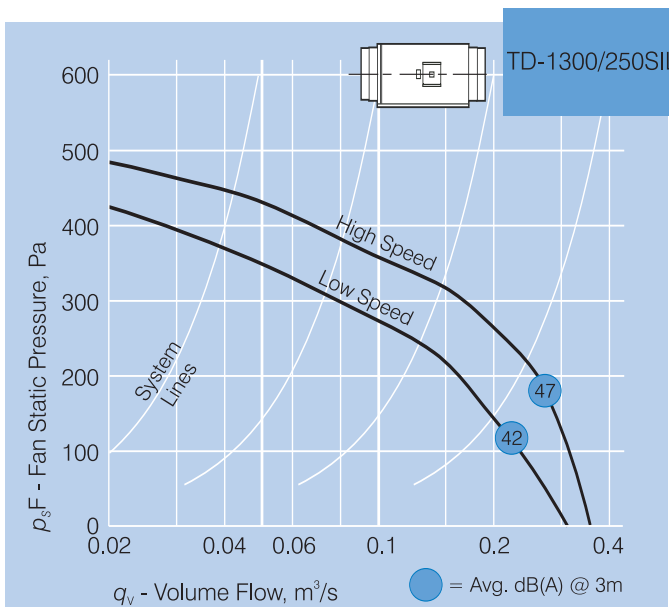
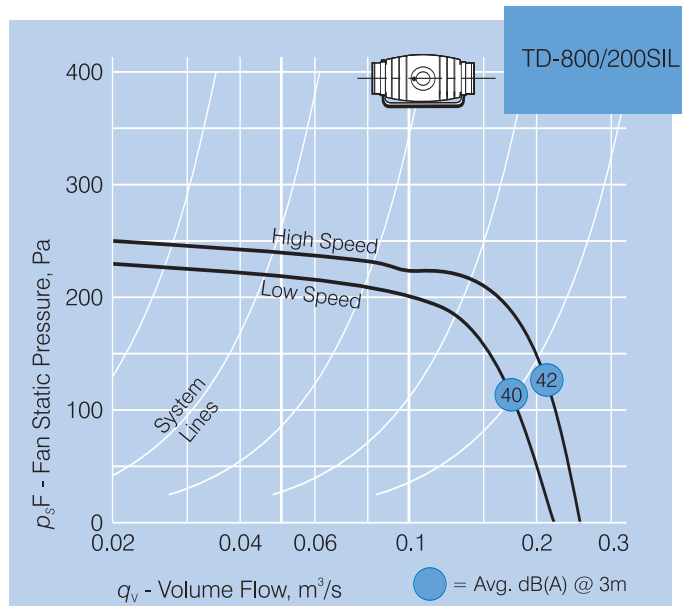
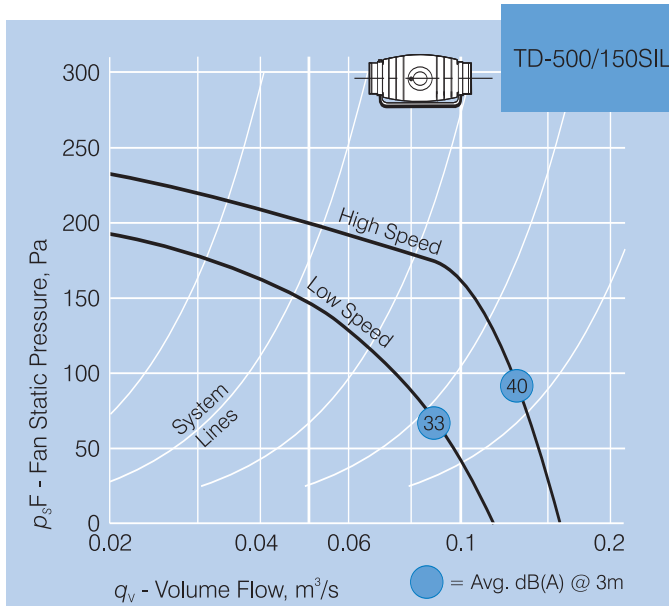
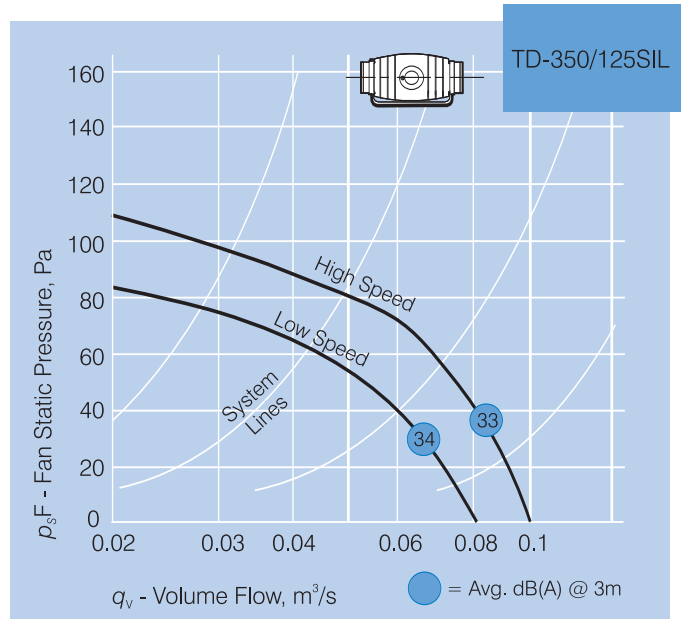
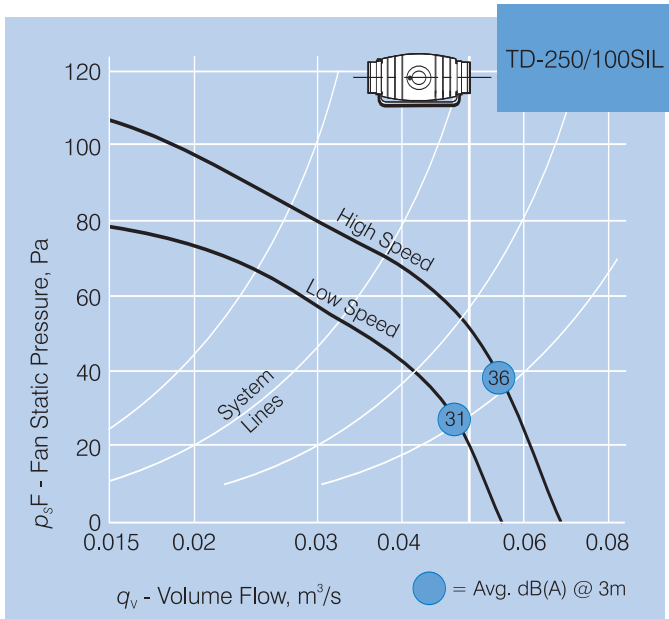
Values shown are High Speed / Low Speed

## HOW TO ORDER



## PERFORMANCE CURVES

B



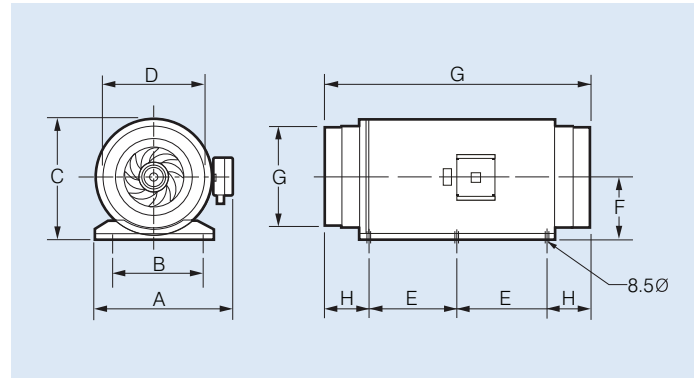
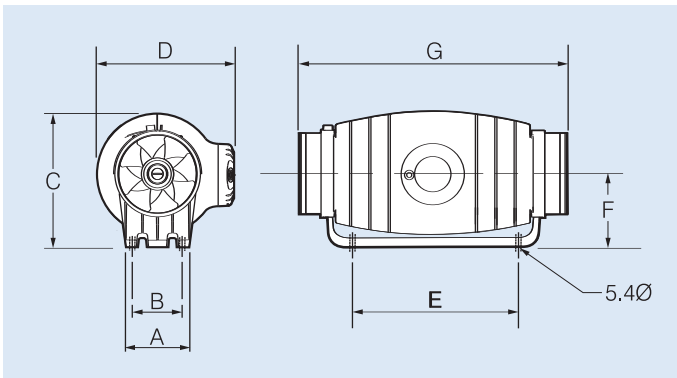
Sound Levels are taken at medium-level pressure.

## NOISE DATA

Model Number TD-...	Speed	Type	dB(A) @ 3m	In-duct Sound Power Levels L <sub>w</sub> dB re 1pW							
				63	125	250	500	1k	2k	4k	8k
250/100SIL	High	Inlet	36	50	52	55	56	52	43	37	31
250/100SIL	High	Breakout	24	50	48	49	43	35	30	24	19
250/100SIL	High	Outlet	33	52	51	52	55	45	39	35	29
250/100SIL	Low	Inlet	31	49	50	52	49	48	38	31	28
250/100SIL	Low	Breakout	19	49	45	45	36	28	24	18	19
250/100SIL	Low	Outlet	28	51	50	50	49	42	34	30	26
350/125SIL	High	Inlet	33	48	43	48	54	49	41	36	31
350/125SIL	High	Breakout	20	48	38	39	40	36	22	17	15
350/125SIL	High	Outlet	32	51	43	49	53	47	39	35	30
350/125SIL	Low	Inlet	34	48	45	49	49	53	38	33	27
350/125SIL	Low	Breakout	19	45	40	41	36	36	20	15	15
350/125SIL	Low	Outlet	29	49	45	49	48	47	34	31	27
500/150SIL	High	Inlet	40	51	49	57	59	55	53	45	43
500/150SIL	High	Breakout	22	39	35	48	40	35	32	17	14
500/150SIL	High	Outlet	41	61	51	62	61	57	49	43	39
500/150SIL	Low	Inlet	33	51	47	50	53	48	43	36	31
500/150SIL	Low	Breakout	17	46	39	38	36	33	27	17	16
500/150SIL	Low	Outlet	33	51	47	53	53	48	40	32	28
800/200SIL	High	Inlet	42	51	54	55	58	58	57	53	47
800/200SIL	High	Breakout	19	36	45	36	36	34	32	20	15
800/200SIL	High	Outlet	44	68	61	58	61	59	57	54	48
800/200SIL	Low	Inlet	40	50	51	57	55	58	53	48	43
800/200SIL	Low	Breakout	18	37	40	29	34	35	29	16	12
800/200SIL	Low	Outlet	40	63	61	63	56	55	53	49	43
1300/250SIL	High	Inlet	47	58	59	71	63	61	59	55	52
1300/250SIL	High	Breakout	35	54	48	57	46	54	46	36	38
1300/250SIL	High	Outlet	53	56	62	70	72	71	62	51	48
1300/250SIL	Low	Inlet	42	61	56	66	59	56	54	50	47
1300/250SIL	Low	Breakout	31	55	48	51	43	50	41	31	33
1300/250SIL	Low	Outlet	48	55	60	66	68	66	56	46	42
2000/315SIL	High	Inlet	50	60	65	72	65	65	63	59	56
2000/315SIL	High	Breakout	54	49	53	56	52	56	53	49	44
2000/315SIL	High	Outlet	39	64	71	75	70	73	64	50	50
2000/315SIL	Low	Inlet	44	60	63	68	59	58	55	52	48
2000/315SIL	Low	Breakout	33	50	56	52	47	50	46	43	37
2000/315SIL	Low	Outlet	48	60	69	69	65	66	57	43	42

Sound Levels are taken at medium-level pressure.

## DIMENSIONS



Model Number TD-..	Dimensions, mm						
	A	B	C	D	E	F	G
250/100SIL	100	83	225	235	250	121	575
350/125SIL	100	83	225	235	250	121	462
500/150SIL	116	96	245	250	250	134	484
800/200SIL	145	129	296	295	340	164	568

Model Number TD-..	Dimensions, mm							
	A	B	C	DØ	E	F	G	H
1300/250SIL	387	280	331	248	200	171	680	140
2000/315SIL	432	335	373	312	260	192	825	152