



NEW  
EC  
MODELS  
ADDED

# ZOO Fan SDF

## Product Brochure

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# ZOO Fan SDF

## Destratification Ceiling Mounted Fan

destrat



### OVERVIEW

The ZOO Fan SDF is a destratification axial fan with a Ziehl-Abegg high quality FE2owlet impeller, offering high performance, high efficiency and very low sound levels, whilst being ideal for speed control. The stylish and effective SDF fan gently brings warm air down from ceilings in cold weather and mixes cold, conditioned air in warm weather for improved comfort and lower operating costs.

### MORE INFORMATION

		<div style="display: flex; justify-content: space-around;"> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">AC</span> <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">EC</span> </div>	
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### QUICK FACTS

- ✓ 2 standard sizes from 250mm to 300mm.
- ✓ Air volume flow rates up to 0.593m<sup>3</sup>/s (AC) and 0.656m<sup>3</sup>/s (EC).
- ✓ High quality Ziehl-Abegg FE2owlet.
- ✓ Suitable for operating temperatures up to +70°C.
- ✓ Fully speed controllable.

### CASING

The Fire-Resistant (5VB), UV-treated PC ABS plastic housing provides a long lasting and robust construction.

### IMPELLER

Impellers are high quality Ziehl-Abegg FE2owlet in high performance composite material providing enhanced aerodynamic properties and reliability, dynamically balanced to ISO 14694 Grade G6.3, and finished in black (RAL 9005).

### MOTORS

Motors are highly efficient AC or EC, lightweight external rotor motors suitable for speed control. Each motor has integral overload protection. Fans are supplied with a fitted IP54 terminal box, which allows the fan to be positioned conveniently to incoming electrical inputs.

### QUALITY MANAGEMENT

Units are to be designed and manufactured with procedures as defined in BS EN ISO 9001:2008. All SDF units are to be tested to ISO 5801:2007 (airside performance) and BS 848 Part 2:1985 (sound performance).

### TYPICAL APPLICATIONS

- Factories
- Sports Halls
- Shops
- Industrial units
- Warehousing



Elta Fans Limited has a policy of continuous product development and improvement and therefore reserves the right to supply products which may differ from those illustrated and described in this publication. Confirmation of dimensions and data will be supplied on request.

# ZOO Fan SDF



## Performance, SFP & Electrical Data

SINGLE Phase - 220V to 240V / 50Hz or 60Hz

Product Code	Frequency (Hz)	Motor Electrical Data		Input kW	r/min	Max Volume m <sup>3</sup> /s	Max Operating Temp °C	dBA @3m	
		F.L.	S.C					Inlet	Outlet
SDF250/4-1AC	50	0.24	0.40	0.048	1370	0.265	55	Inlet 37	Outlet 38
	60	0.23	0.39	0.050	1590	0.310	70	Inlet 41	Outlet 41
SDF300/4-1AC	50	0.41	0.63	0.095	1230	0.532	60	Inlet 43	Outlet 42
	60	0.41	0.60	0.110	1360	0.593	55	Inlet 46	Outlet 46

Data provided at standard air density of 1.2 kg/m<sup>3</sup>.

The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation.

It is expressed in dB re-20µPa and is presented for comparative purposes only.

FLC Amps @ 230V / 1Ph.

## Sound Data

SINGLE Phase - 220V to 240V / 50Hz or 60Hz

Product Code	Frequency (Hz)		Sound Power Level dBW @ Octave Band Hz								Total dB
			63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz	
SDF250/4-1AC	50	Inlet	52	59	53	53	52	52	49	42	62
		Outlet	51	60	52	52	53	53	48	41	63
SDF250/4-1AC	60	Inlet	52	67	58	56	55	56	54	47	69
		Outlet	50	65	58	55	55	57	52	46	67
SDF300/4-1AC	50	Inlet	54	60	60	60	56	59	53	43	67
		Outlet	53	61	62	57	55	58	51	41	67
SDF300/4-1AC	60	Inlet	60	77	59	62	58	61	57	47	77
		Outlet	62	77	60	61	58	60	55	45	77

Tests and preparation of the sound data have been carried out in accordance with BS 848 Part 2:1985 at 50% peak pressure.

The Sound Power Level Spectra are in dB re-1pW.

## Accessories & Wiring Data

For more information on Accessories & Wiring Diagrams, please see individual product downloads, or visit [eltaselect.com/information-centre](http://eltaselect.com/information-centre)

SINGLE Phase - 220 to 240V / 50Hz or 60Hz

Product Code	Transformer Controller	Wiring Diagram No.
SDF250/4-1AC	149-TC12-0-10	152-177
SDF300/4-1AC	149-TC12-0-10	152-177

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# ZOO Fan SDF



## Performance, SFP & Electrical Data

SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code	Motor Electrical Data	Overall Efficiency %	FMEG	Input kW	r/min	Max Volume m <sup>3</sup> /s	Max Operating Temp °C	dBA @3m	
	F.L.							Inlet	Outlet
SDF250/4-1EC	0.77	-	-	0.113	2568	0.423	60	Inlet	53
								Outlet	53
SDF300/4-1EC	1.01	32.7	N44	0.150	1640	0.656	60	Inlet	51
								Outlet	49

\*Overall static efficiency, r/min and FMEG values are as ISO 12759 installation category A. FLC Amps @ 230V / 1Ph.  
A variable speed drive is integrated within the fan.  
Data provided at standard air density of 1.2 kg/m<sup>3</sup>.  
The overall A-weighted sound pressure level is at a distance of 3m with spherical free-field propagation.  
It is expressed in dB re-20µPa and is presented for comparative purposes only.

## Sound Data

SINGLE Phase - 200V to 277V / 50Hz or 60Hz

Product Code		Sound Power Level dBW @ Octave Band Hz								Total dB
		63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz	
SDF250/4-1EC	Inlet	63	62	67	69	66	69	65	59	75
	Outlet	61	61	68	69	68	68	64	58	75
SDF300/4-1EC	Inlet	62	63	63	64	64	67	65	56	73
	Outlet	61	63	64	63	64	65	62	54	72

Tests and preparation of the sound data have been carried out in accordance with BS 848 Part 2:1985 at 50% peak pressure.  
The Sound Power Level Spectra are in dB re-1pW.

## Accessories & Wiring Data

For more information on Accessories & Wiring Diagrams, please see individual product downloads, or visit [eltaselect.com/information-centre](http://eltaselect.com/information-centre)

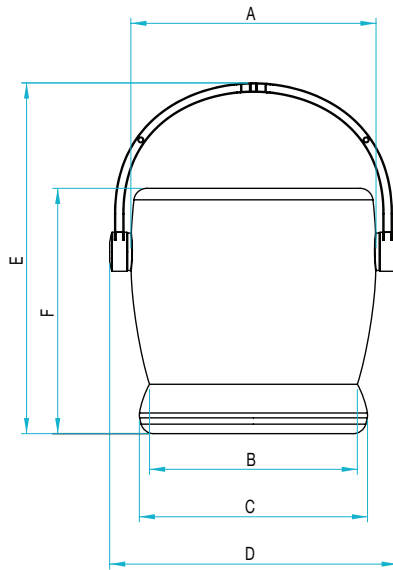
SINGLE Phase - 220 to 240V / 50Hz

Product Code	Electronic Controller	Wiring Diagram No.
SDF250/4-1EC	149-POT-10	152-00036
SDF300/4-1EC	149-POT-10	152-00036

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## Dimensional Data



Product Code	A	B	C	D	E	F	Weight kg
SDF250	359	300	352	445	545	375	6.8
SDF300	452	367	421	533	656	460	10.5

All dimensions are shown in mm.



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