



Miniflow SMF

Product Brochure

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Miniflow SMF

Roof Mounted Axial Flow Fan

roof



OVERVIEW

The Miniflow SMF is a range of axial powered roof extract units specifically developed to meet the airflow requirements of small to medium sized applications.

MORE INFORMATION

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QUICK FACTS

- ✓ 3 standard sizes from 130mm to 300mm.
- ✓ Air volume flow rates up to 0.432 m³/s.
- ✓ Static pressures up to 244 Pa.
- ✓ Suitable for operating temperatures up to +50°C.
- ✓ Extensive stock range available.

CASING

The top cowl and fan support housing shall be manufactured from UV-stabilised plastic, finished in goose wing grey (BS 00-A-05).

The unit shall incorporate steel components including the fan, fan housing and brackets in a corrosion resistant finish.
Each SMF unit can be mounted on most slopes up to 30°.

IMPELLER

The impeller is aerodynamically designed by combining the impeller with the rotor of the external rotor motor. Motor and impeller are balanced to ISO 14694 Grade G6.3.

MOTORS

External rotor, squirrel cage induction, with sealed for life ball bearings. Motors shall be IP44 and Class B insulation.

All units are suitable for ambient operating temperatures up to +50°C.

Motors are wound for 220-240V/1Ph/50Hz A.C. supply, with built in thermal overload protection, except the SMF132E which is impedance protected.

QUALITY MANAGEMENT

Units are to be designed and manufactured with procedures as defined in BS EN ISO 9001:2008.

All SMF units are to be tested to ISO 5801:2007 (airside performance) and BS 848 Part 2:1985 (sound performance).

TYPICAL APPLICATIONS

- Changing Rooms
- Toilets
- Bathrooms
- Shower Rooms



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.

Miniflow SMF

Performance, SFP & Electrical Data



SINGLE Phase - 220V to 240V / 50Hz

Product Code	Speed r/min	Airflow SFP	Airflow m³/s @ Static Pressure Pa.												Overall Efficiency %	FMEG	Motor Electrical Data		dBA @ 3m	
			0	25	50	75	100	150	200	250	300	350	400	500			FLC Amps	Input kW		
SMF132E	2760	m³ / s	0.079	0.075	0.063	0.045	0.030								-	-	0.25	0.040	Inlet	43
		W / (L/s)	-	-	-	-	-												Outlet	-
SMF202E	2580	m³ / s	0.220	0.200	0.160	0.120	0.100	0.070							-	-	0.35	0.070	Inlet	50
		W / (L/s)	-	-	-	-	-	-											Outlet	-
SMF204E	1440	m³ / s	0.090	0.073	0.041	0.017									-	-	0.13	0.030	Inlet	38
		W / (L/s)	-	-	-	-													Outlet	-
SMF252E	2520	m³ / s	0.387	0.348	0.315	0.270	0.220	0.153	0.077						-	-	0.54	0.118	Inlet	52
		W / (L/s)	-	-	-	-	-	-	-										Outlet	-
SMF254E	1380	m³ / s	0.245	0.211	0.163	0.107	0.061								-	-	0.29	0.058	Inlet	42
		W / (L/s)	-	-	-	-	-												Outlet	-
SMF304E	1320	m³ / s	0.432	0.341	0.255	0.188	0.129								-	-	0.45	0.050	Inlet	44
		W / (L/s)	-	-	-	-	-												Outlet	-
SMF306E	960	m³ / s	0.279	0.228	0.134	0.035									-	-	0.23	0.045	Inlet	39
		W / (L/s)	-	-	-	-													Outlet	-

Overall total efficiency, r/min and FMEG values are per ISO 12759 installation category D. FLC Amps @ 230V / 1Ph / 50Hz.

Data provided at standard air density of 1.2 kg/m³.

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 - 220V to 240V / 50Hz

Product Code		Sound Power Level dBW @ Octave Band Hz								Total dB
		63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz	
SMF132E	Inlet	51	51	59	55	57	58	56	-	65
	Outlet	-	-	-	-	-	-	-	-	-
SMF202E	Inlet	67	69	73	71	66	65	59	-	77
	Outlet	-	-	-	-	-	-	-	-	-
SMF204E	Inlet	53	65	59	57	52	47	39	-	67
	Outlet	-	-	-	-	-	-	-	-	-
SMF252E	Inlet	66	72	73	69	65	63	58	-	77
	Outlet	-	-	-	-	-	-	-	-	-
SMF254E	Inlet	62	67	67	60	56	52	45	-	71
	Outlet	-	-	-	-	-	-	-	-	-
SMF304E	Inlet	66	67	67	63	58	54	49	-	72
	Outlet	-	-	-	-	-	-	-	-	-
SMF306E	Inlet	58	64	64	54	47	53	39	-	68
	Outlet	-	-	-	-	-	-	-	-	-

Please contact Elta Fans for sound data.

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.

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Accessories & Wiring Data

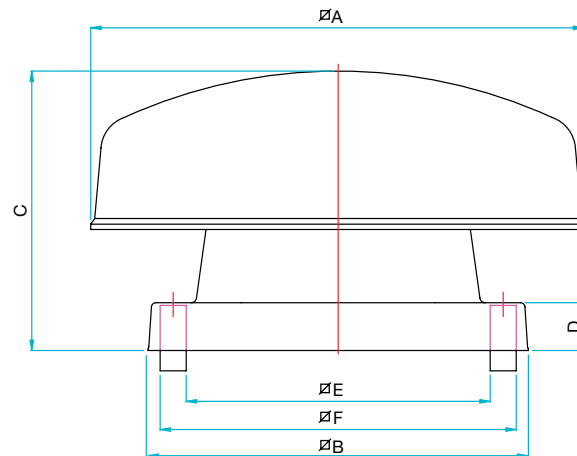


For more information on Accessories & Wiring Diagrams, please see individual product downloads,
or visit eltaselect.com/information-centre

SINGLE Phase - 220V to 240V / 50Hz

Product Code	Electronic Controller	Backdraft Shutter	Cowl Only (Standard)	Wiring Diagram No.
SMF132E	149-EL31	-	SMF13	152-503
SMF202E	149-EL31	-	SMF20/30	152-503
SMF204E	149-EL31	-	SMF20/30	152-503
SMF252E	149-EL31	SKCBD-B	SMF20/30	152-503
SMF254E	149-EL31	SKCBD-B	SMF20/30	152-503
SMF304E	149-EL31	SKCBD-B	SMF20/30	152-503
SMF306E	149-EL31	-	SMF20/30	152-503

Dimensional Data



Product Code	Cowl Only	A	B	C	D	E	F	Weight kg
SMF132E	SMF13	310	276	200	30	200	250	1.9
SMF202E	SMF20/30	570	430	350	60	350	410	4.6
SMF204E								4.5
SMF252E								5.9
SMF254E								6.1
SMF304E								6.5
SMF306E								6.5

All dimensions are shown in mm.

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