



Heritage SCH

Product Brochure

t: 01384 275800

f: 01384 275810

e: bs@eltafans.co.uk

visit: eltaselect.com



Heritage SCH

Roof Mounted Vertical Discharge Centrifugal Fan

roof



OVERVIEW

The Heritage SCH range is a range of vertical discharge centrifugal fans designed for use in commercial kitchen exhaust systems and other applications requiring the combination of speed controllable motors with an all metal construction.

MORE INFORMATION

AC

PAGE NO.

Performance, SFP & Electrical Data	1Ph	3
	3Ph	4
Sound Data	1Ph	3
	3Ph	4
Accessories & Wiring Data	All	5
Dimensional Data	All	5

QUICK FACTS

- ✓ 7 standard sizes from 315mm to 630mm.
- ✓ Air volume flow rates up to 1.76 m³/s.
- ✓ Static pressures up to 200 Pa.
- ✓ Suitable for operating temperatures up to +50°C.
- ✓ Can be mounted at angles up to 30°.

CASING

The all metal fan casing provides a long lasting and robust construction.

The casings are manufactured from pre-galvanised sheet steel. The wind band shall incorporate quick-release toggle clamps to provide easy access for cleaning and maintenance.

All SCH units can be mounted at angles up to 30°.

IMPELLER

Aerodynamically designed backward curved centrifugal impellers constructed in aluminium or galvanised sheet steel. Impellers are balanced to ISO 14694 Grade G6.3.

MOTORS

Motors shall be external rotor motor, with sealed for life ball bearings. Motors shall be minimum IP44 protected and minimum Class B insulation.

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

QUALITY MANAGEMENT

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

TYPICAL APPLICATIONS

- Industrial
- Commercial Kitchens and Catering
- Hospitals
- Bakeries
- Forges and Foundries



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.

SINGLE Phase - 220V to 240V / 50Hz

Product Code	Speed r/min	Airflow	Airflow m³/s @ Static Pressure Pa.									Motor Electrical Data			dBA @ 3m
			0	50	100	150	200	250	300	400	500	FLC Amps	SC Amps	Input kW	
SCH315/4-2	1380	m³/s	0.34	0.32	0.30	0.26	0.20					0.66	4.0	0.15	47
SCH315/6-2	900	m³/s	0.26	0.21								0.54	3.2	0.07	41
SCH350/4-2	1380	m³/s	0.70	0.66	0.62	0.57	0.52	0.47	0.40			1.25	7.5	0.28	51
SCH350/6-2	900	m³/s	0.52	0.46	0.37	0.22						0.32	1.9	0.07	42
SCH400/4-2	1380	m³/s	1.00	0.93	0.86	0.80	0.73	0.66	0.60	0.45		2.00	12.0	0.42	54
SCH400/6-2	900	m³/s	0.63	0.57	0.49	0.38						0.88	5.3	0.20	44
SCH450/4-2	1380	m³/s	1.35	1.31	1.27	1.23	1.19	1.14	1.08	0.92	0.66	3.50	21.0	0.76	56
SCH450/6-2	900	m³/s	0.98	0.89	0.81	0.71	0.59					2.00	12.0	0.43	46
SCH500/6-2	900	m³/s	1.30	1.21	1.11	1.01	0.90	0.68				2.50	15.0	0.53	49
SCH560/6-2	900	m³/s	1.76	1.65	1.54	1.42	1.29	1.15	0.97			4.10	24.6	0.84	53

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category A. 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	
SCH315/4-2	81	77	69	66	58	58	56	50	83
SCH315/6-2	76	68	64	60	54	54	48	42	77
SCH350/4-2	79	77	73	70	61	63	62	52	82
SCH350/6-2	76	68	65	62	57	51	46	43	77
SCH400/4-2	82	80	75	72	65	66	66	59	85
SCH400/6-2	77	72	66	63	58	54	51	47	79
SCH450/4-2	84	82	77	74	68	69	69	65	87
SCH450/6-2	77	76	67	64	59	57	55	51	80
SCH500/6-2	80	79	72	66	62	60	58	56	83
SCH560/6-2	83	83	77	69	66	64	62	61	87

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.

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.

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.

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.

THREE Phase - 380V to 415V / 50Hz

Product Code	Speed r/min	Airflow	Airflow m³/s @ Static Pressure Pa.													Motor Electrical Data			dBA @ 3m
			0	50	100	150	200	250	300	400	500	600	700	800	1000	FLC Amps	SC Amps	Input kW	
SCH315/4-3	1380	m³/s	0.34	0.32	0.30	0.26	0.20									0.37	2.2	0.18	47
SCH315/6-3	900	m³/s	0.26	0.21												0.15	0.9	0.09	41
SCH350/4-3	1380	m³/s	0.70	0.66	0.62	0.57	0.52	0.47	0.40							0.51	3.1	0.19	51
SCH350/6-3	900	m³/s	0.52	0.46	0.37	0.22										0.22	1.3	0.13	42
SCH400/4-3	1380	m³/s	1.00	0.93	0.86	0.80	0.73	0.66	0.60	0.45						1.40	8.4	0.45	54
SCH400/6-3	900	m³/s	0.63	0.57	0.49	0.38										0.73	4.4	0.23	44
SCH450/4-3	1380	m³/s	1.35	1.31	1.27	1.23	1.19	1.14	1.08	0.92	0.66					1.47	8.8	0.77	56
SCH450/6-3	900	m³/s	0.98	0.89	0.81	0.71	0.59									0.90	5.4	0.44	46
SCH500/4-3	1380	m³/s	1.87	1.83	1.78	1.73	1.68	1.63	1.58	1.45	1.29	1.02				2.60	15.6	1.30	60
SCH500/6-3	900	m³/s	1.30	1.21	1.11	1.01	0.90	0.68								1.20	7.2	0.65	49
SCH560/4-3	1380	m³/s	2.66	2.58	2.50	2.41	2.33	2.24	2.15	1.95	1.73	1.48	1.18			4.10	24.6	2.16	65
SCH560/6-3	900	m³/s	1.76	1.65	1.54	1.42	1.29	1.15	0.97							1.45	8.7	0.69	53
SCH630/4-3	1380	m³/s	3.99	3.91	3.84	3.77	3.70	3.63	3.57	3.43	3.29	3.15	2.99	2.81	2.25	7.35	44.1	4.30	70
SCH630/6-3	900	m³/s	2.60	2.46	2.36	2.27	2.17	2.06	1.92	1.30						2.20	13.2	1.10	57

Overall static efficiency, r/min and FMEG values are per ISO 12759 installation category A. 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

THREE Phase - 380V to 415V / 50Hz

Product Code	Sound Power Level dBW @ Octave Band Hz								Total dB
	63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz	
SCH315/4-3	81	77	69	66	58	58	56	50	83
SCH315/6-3	76	68	64	60	54	54	48	42	77
SCH350/4-3	79	77	73	70	61	63	62	52	82
SCH350/6-3	76	68	65	62	57	51	46	43	77
SCH400/4-3	82	80	75	72	65	66	66	59	85
SCH400/6-3	77	72	66	63	58	54	51	47	79
SCH450/4-3	84	82	77	74	68	69	69	65	87
SCH450/6-3	77	76	67	64	59	57	55	51	80
SCH500/4-3	87	87	82	76	73	73	73	70	91
SCH500/6-3	80	79	72	66	62	60	58	56	83
SCH560/4-3	91	92	88	79	78	77	77	75	96
SCH560/6-3	83	83	77	69	66	64	62	61	87
SCH630/4-3	94	98	94	82	83	81	82	80	101
SCH630/6-3	86	87	82	72	70	68	66	66	90

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.

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.

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.

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.

There are no accessories available for this product.

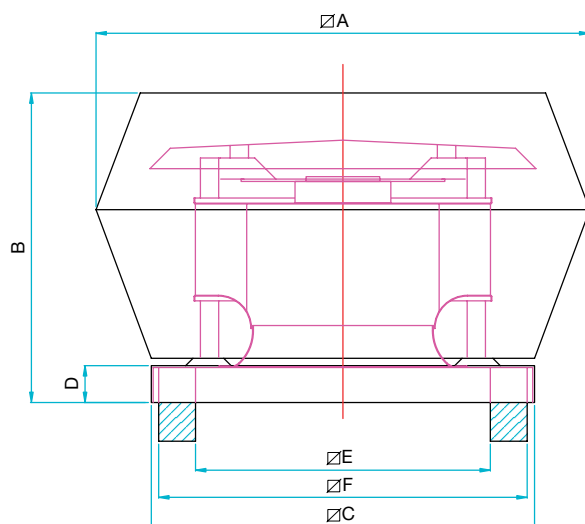
SINGLE Phase - 220V to 240V / 50Hz THREE Phase - 380V-415V / 50Hz

Product Code	Wiring Diagram No.
SCH315/4-1	152-511
SCH315/6-1	152-511
SCH350/4-1	152-511
SCH350/6-1	152-511
SCH400/4-1	152-511
SCH400/6-1	152-511
SCH450/4-1	152-511
SCH450/6-1	152-511
SCH500/6-1	152-511
SCH560/6-1	152-511

Product Code	Wiring Diagram No.
SCH315/4-3	152-609
SCH315/6-3	152-609
SCH350/4-3	152-609
SCH350/6-3	152-609
SCH400/4-3	152-609
SCH400/6-3	152-609
SCH450/4-3	152-609
SCH450/6-3	152-609
SCH500/4-3	152-609
SCH500/6-3	152-609
SCH560/4-3	152-609
SCH560/6-3	152-609
SCH630/4-3	152-609
SCH630/6-3	152-609

Please see our Wiring Diagrams download on www.eltaselect.com for more information.

Dimensional Data



Product Code	A	B	C	D	E	F	Weight kg
SCH315	520	310	430	50	310	410	16
SCH350	670	420	520	50	400	500	26
SCH400	670	420	520	50	400	500	26
SCH450	900	540	740	60	620	720	49
SCH500	900	540	740	60	620	720	51/57*
SCH560	900	540	740	60	620	720	56/65*
SCH630	1160	670	830	60	710	810	78/97*

All dimensions are shown in mm.

*The higher weight shown applies to the /4-2 & /4-3 versions.



BUILDING SERVICES

Tel: +44 (0) 1384 275800

Fax: +44 (0) 1384 275810

e-mail: bs@eltafans.co.uk

46 Third Avenue
Pensnett Trading Estate
Kingswinford, West Midlands
DY6 7US, United Kingdom

APPLIED TECHNOLOGY

Tel: +44 (0) 1489 566500

Fax: +44 (0) 1489 566555

e-mail: at@eltafans.co.uk

17 Barnes Wallis Road
Segensworth East Industrial Estate
Fareham, Hampshire
PO15 5ST, United Kingdom

EXPORT

Tel: +44 (0) 1489 566500

Fax: +44 (0) 1489 566555

e-mail: export@eltafans.co.uk

17 Barnes Wallis Road
Segensworth East Industrial Estate
Fareham, Hampshire
PO15 5ST, United Kingdom

www.eltafans.com



BS EN ISO 9001:2008
FM 556465



A member of
HEVAC ASSOCIATION



PATRONS

A member of

ELTA
GROUP LIMITED