



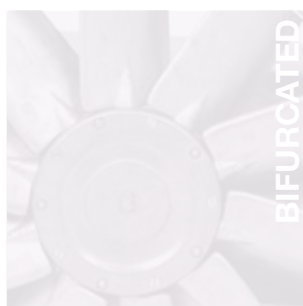
Heritage SGE

t: 01384 275800

f: 01384 275810

e: bs@eltafans.co.uk

visit: eltaselect.com



The Select Catalogue has a number of symbols and icons, designed to make the catalogue quicker and easier to use. An explanation of these are listed below:

Application Icons

Applications are now represented via a set of pictorial icons. The application icons key is featured on the facing page. Some applications have been grouped together, where the environmental conditions have similarities.

New Products

The icon to the right indicates a new addition to the Select product range. This will be displayed on the introductory page of each product and can also be seen on the contents page for each category.

NEW PRODUCT

Raptor SPA
Plate Mounted Axial Flow Fan

OVERVIEW

The Raptor SPA incorporates the BAT (Best Available Technology) FEZOWEL sickle bladed aerofl profiled impeller, with serrated trailing edges and vanes powered by the ultra reliable Ziehl-Abegg external rotor motor. The fan design, construction and finish provides a strong, durable and weatherproofed range, that boasts low noise and increased efficiency.

QUICK FACTS

- ✓ 9 standard sizes from 250mm to 710mm.
- ✓ Air volume flow rates of up to 6.27 m³/s.
- ✓ Static pressures of up to 298 Pa.
- ✓ Suitable for operating temperatures up to +70°C.
- ✓ Extensive stock range available.

CASING

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

The units have been constructed from mild steel and suitably treated to ensure full corrosion protection. The guard is powder coated in powder epoxy paint finish (RAL 5005).

Fan plates are powder coated polymer epoxy paint finish in powder epoxy (RAL 7002).

MOTORS

Motors are highly efficient, lightweight external rotor motors, insulated to Class F, with integral thermal overload protection.

Size 250-350 weatherproofed to IP44
Size 400-710 weatherproofed to IP54

All fans are suitable for use with a speed controller.

Electrical connection to the motor shall be provided by an IP55 terminal box fitted to a hinged lead allowing the fan to be positioned conveniently to incoming electrical inputs.

TYPICAL APPLICATIONS

QUALITY MANAGEMENT

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

All SPA units are also tested to BS EN ISO 9001:2007 (noise performance) and BS EN ISO 14001:2004 (environmental performance).

IMPELLER

Impellers are high quality Ziehl-Abegg Sickle Blade or FEZOWEL in pressure die cast aluminium or high performance composite material providing enhanced aerodynamic properties, low noise and energy efficiency.

Units are dynamically balanced to BS EN ISO 1940:2003.

Ziehl-Abegg Sickle Blade or FEZOWEL impellers provide significant noise reduction.

MORE INFORMATION

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More Information Box

A more information box now also features on each introductory product page. This makes it easier to locate any further information you may require by displaying the page number to refer to, or directing you to the website - www.eltaselect.com.

2013

New legislation has driven change in the Elta Select range of products. Elta Fans have revolutionised both their new and existing product range to meet legislation directives, but also to incorporate the 'Best Available Technology'; creating a reliable efficient and powerful range of products. The products which conform to the 2013 legislation are indicated with the above logo. This logo is pictured both on the main product page and the category contents page.

2013

Catalogue Guide

Application Key

info

Each product has an indication of typical applications via a set of icons.
Every icon is displayed below, along with the definition of what it represents.



Sports Hall
Squash Courts
Gymnasium



Schools
Colleges



Shopping Mall



Shops
Retail Parks
Commercial



Kitchens



Factories
Industrial Units



Warehousing



Shower Rooms
Bathrooms
Toilets
Changing Rooms



Marine



Agriculture



Airports



Corrosive
Atmospheres



Banks



Hospitals



Hotels



Restaurants
Cafes
Cafeterias
Pubs



Theatres



Air Conditioning



Residential
Public Buildings
Entrance Halls



Underground
Stations



Libraries



Offices



Laundries
Utility Rooms



Temporary
Ventilation
Construction
Sites



Enclosed Car
Parks



Stairwell
Pressurisation



Workshops
Foundries
Welding Bays
Machine Shops
Spray Booths
Lift Motor Rooms



Marquees



Conference Halls



Cooling Towers
Stations
Boiler Houses
Heavy Industrial



Hot Gas
Situations



General HVAC

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.

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Heritage SGE

Roof Mounted Vertical Discharge Centrifugal Fan

roof



OVERVIEW

The Heritage SGE range of vertical discharge centrifugal roof extract units has been developed to simplify cleaning and general maintenance and to assist in the collection of grease in applications such as fast food restaurants, commercial kitchens and process work where exhaust air is grease laden.

QUICK FACTS

- ✓ 4 standard sizes from 400mm to 560mm.
- ✓ Air volume flow rates of up to 3.21 m³/sec.
- ✓ Static pressures of up to 800 Pa.
- ✓ Suitable for operating temperatures up to +50°C.
- ✓ Horizontal mounting and speed controllable.

CASING

The all metal fan casing provides a long lasting and robust construction. The units have been constructed from galvanised mild steel sheet with a powder coat finish.

The housing shall incorporate a grease/water separator and grease reservoir.

Access for impeller cleaning shall be by removal of the wind band via quick release toggle catches and a tilt back fan base assembly.

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 are to be foot mounted totally enclosed metric type to IP55, with sealed for life bearings, standard industrial paint finish and Class F insulation to EN 60034-5, suitable for operating temperatures of up to +50°C.

Motors are to be wired via a weatherproofed cable to an IP55 protected terminal box mounted on the outside of the unit casing.

QUALITY MANAGEMENT

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

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

TYPICAL APPLICATIONS



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Heritage SGE

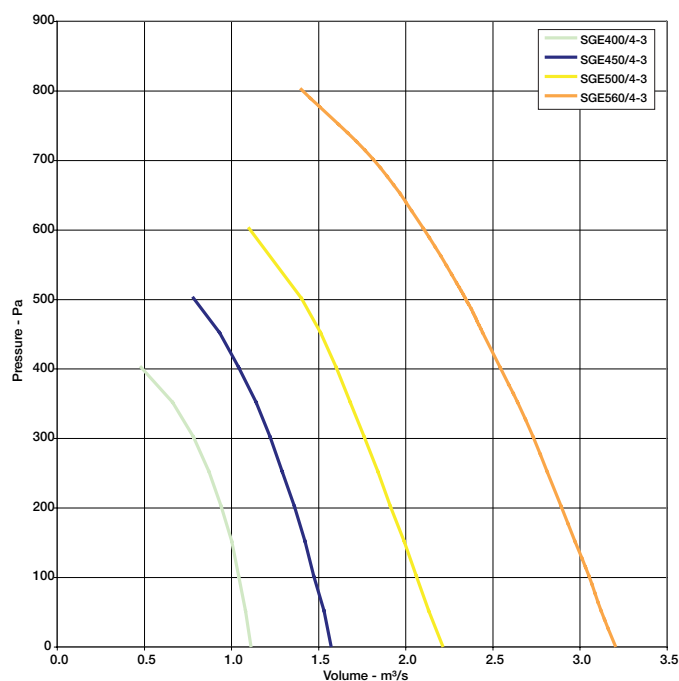
Performance and Electrical Data

THREE Phase - 380V-415V / 50Hz

Product Code	Speed r/min	Airflow	Airflow m³/s @ Static Pressure Pa.														Motor Electrical Data		
			0	50	100	150	200	250	300	350	400	450	500	600	700	800	FLC Amps	SC Amps	Input kW
SGE400/4-3	1440	m³/s	1.12	1.09	1.05	1.01	0.95	0.88	0.79	0.67	0.49						1.50	9.0	0.55
SGE450/4-3	1440	m³/s	1.58	1.54	1.48	1.43	1.37	1.30	1.23	1.15	1.05	0.94	0.79				2.10	12.6	0.75
SGE500/4-3	1440	m³/s	2.22	2.14	2.07	2.00	1.92	1.85	1.77	1.69	1.61	1.52	1.41	1.11			3.40	20.4	1.50
SGE560/4-3	1440	m³/s	3.21	3.13	3.06	2.98	2.90	2.82	2.74	2.65	2.55	2.45	2.35	2.11	1.82	1.41	7.10	42.6	3.00

Performance Curves

THREE Phase - 4 Pole



Sound Data

THREE Phase - 380V-415V / 50Hz

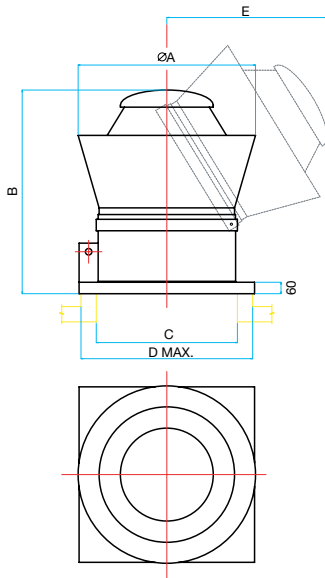
Product Code	Sound Power Level dBW @ Octave Band Hz								dBA @ 3m	Breakout dBA @3m
	63Hz	125Hz	250Hz	500Hz	1 kHz	2 kHz	4 kHz	8 kHz		
SGE400/4-3	82	80	75	72	65	66	66	59	54	27
SGE450/4-3	84	82	77	74	68	69	69	65	56	31
SGE500/4-3	87	87	82	76	73	73	73	70	60	36
SGE560/4-3	91	92	88	79	78	77	77	75	65	44

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

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Heritage SGE

Dimensional Data



Product Code	A	B	C	D	E	Weight kg
SGE400/4-3	667	870	540	620	820	88
SGE450/4-3	930	995	740	900	980	128
SGE500/4-3	930	995	740	900	980	153
SGE560/4-3	930	995	740	900	980	178

All dimensions are shown in mm.

Wiring Data

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

THREE Phase - 380V-415V / 50Hz

Product Code	Wiring Diagram No.
SGE400/4-3	152-610
SGE450/4-3	152-610
SGE500/4-3	152-610
SGE560/4-3	152-610

Accessories

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

THREE Phase - 380V-415V / 50Hz

Product Code	Inverter Controller 3PH-3PH IP55	Inverter Controller 3PH-3PH IP20
SGE400/4-3	149-ODE-2-14075-3KA1S	149-ODE-2-14075-3KA12
SGE450/4-3	149-ODE-2-14075-3KA1S	149-ODE-2-14075-3KA12
SGE500/4-3	149-ODE-2-14150-3KA1S	149-ODE-2-14150-3KA12
SGE560/4-3	149-ODE-2-24400-3KA4S	149-ODE-2-24400-3KA42

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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
Segnesworth 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
Segnesworth East Industrial Estate
Fareham, Hampshire
PO15 5ST, United Kingdom

www.eltafans.com



BS EN ISO 9001:2008
FM 556465



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