

Model	A	B	C	D	E	F	G	Weight kg.
SH100A-L	400	300	166	100	83	320	270	10
SH125A-L	400	300	166	125	83	320	270	10
SH150A-L	400	300	182	150	91	320	270	11
SH200A-L	427	350	230	200	115	347	320	14
SH250A-L	452	350	280	250	140	372	320	16
SH315A-L	430	400	340	315	170	350	370	19.5

SPECIFICATION

General

The Hideaway SH in-line centrifugal single fan shall be from the Select range of Elta Fans Ltd.

Housings

Housings are to be manufactured from prime quality 0.9 or 1.2mm thick galvanised steel with circular spigots at both ends to suit ISO standard spiral ducting from 100mm to 315mm. Casing is to be lined on the inlet side with 25mm high density, non toxic, flame retardant acoustic lining in compliance with BS476 Parts 6 and 7. Access to the fan and motor is to be via an easily removable panel sealed using non hygroscopic neoprene and all fixings are to be non rusting. Two M20 cable entry points are to be supplied, one on either side of the casing.

Fans

Fans are to be single inlet, single width backward curved centrifugal type, directly driven by an energy efficient external rotor motor balanced in accordance with VDI 2060 class Q2.5. Motor enclosure is to be IP44. All units are to be suitable for working temperatures of up to +50°C.

Quality Management

All units are to be designed and manufactured with procedures as defined in BS EN ISO 9001:2000. EEC directives shall be met. SH units are to be tested to ISO 5801:1997 (airside performance) and BS 848 pt 2:1985 (sound performance).

ACCESSORIES

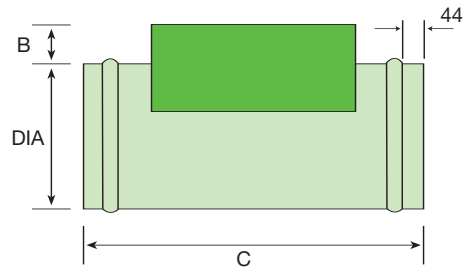
- ◆ Speed Controllers
- ◆ Fast Clamps (page 66)
- ◆ Electric Heater Batteries (page 65)
- ◆ Silencers (page 66)
- ◆ Panel Filters (page 65)

SINGLE PHASE - FIXED OR VARIABLE SPEED 220-240V / 1PH / 50HZ

Product Code	Speed rpm	Airflow m ³ /sec @ Static Pressure Pa.										Motor Electrical Data			Speed Controller	In-Duct Sound Level dBA @ 3m	Breakout Sound Level dBA @ 3m	Silencer Attenuation dBA			
		0	50	100	150	200	250	300	350	400	500	FL Amps	SC Amps	Input kW				300L	600L	900L	1200L
SH100A-L	2450	0.070	0.064	0.056	0.051	0.048	0.041	0.030	0.008			0.34	0.51	0.075	EL21	39	36	-14	-20	-26	-28
SH125A-L	2350	0.115	0.096	0.082	0.068	0.056	0.045	0.028				0.34	0.51	0.077	EL21	41	35	-11	-17	-22	-25
SH150A-L	2380	0.117	0.103	0.092	0.078	0.063	0.048	0.030				0.35	0.51	0.078	EL21	41	37	-11	-17	-21	-23
SH200A-L	2750	0.185	0.175	0.162	0.150	0.137	0.121	0.105	0.088	0.070		0.58	1.40	0.130	EL21	47	38	-10	-15	-19	-22
SH250A-L	2500	0.246	0.230	0.210	0.191	0.173	0.152	0.130	0.110	0.085		0.70	1.30	0.160	EL21	53	47	-11	-15	-18	-21
SH315A-L	2150	0.330	0.300	0.270	0.238	0.208	0.180	0.155	0.130	0.110	0.070	0.87	1.30	0.200	EL21	53	44	-12	-14	-17	-19

Sound levels are average spherical free field values (for comparative use only). Value at 50% peak pressure.

ELECTRIC HEATER BATTERIES



Electric duct heater provides a clean and safe method of air heating. For use in applications where the air leaving temperature is below 40°C at 70% RHdB. Duct section to suit ISO standard spiral ducting from 100mm to 500mm.

Casing manufactured from galvanised sheet steel. Elements consist of nickel chromium wire insulated by compacted magnesium oxide powder fitted within a stainless steel or incoloy tube and sealed by ceramic bead and silicon sealant.

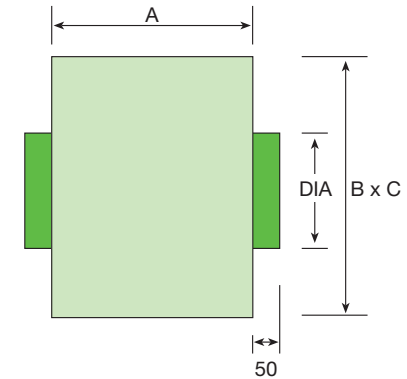
Minimum Air Velocity 2m/s
Maximum Air Velocity 6m/s

Heaters are fitted with a manual reset high temp cutout.

Dia.	kW	Stage	Phase	Min. Airflow m³/s	Max. Airflow m³/s	Dimensions	
						B	C
100	0.75	1	1	0.016	0.047	55	400
125	1.00	1	1	0.025	0.074	80	400
150	1.50	1	1	0.035	0.106	80	400
200	2.00	1	1	0.063	0.189	80	400
250	3.00	1	1	0.098	0.295	80	400
315	4.50	3/1	1/3	0.156	0.468	80	400
355	7.50	3/1	1/3	0.198	0.593	80	400
400	9.00	3/1	1/3	0.251	0.784	80	400
500	18.00	2	3	0.49	1.178	80	500
500	27.00	3	3	0.49	1.178	80	500

To calculate kW rating $kW = \text{air volume m}^3/\text{s} \times \Delta t^\circ\text{C} \times 1.25$
 Approximate current loading - Single Phase (230V/50Hz) Amps = kW x 4.35
 Three Phase (400V/50Hz) Amps = per phase = Kw x 1.44

PANEL FILTERS

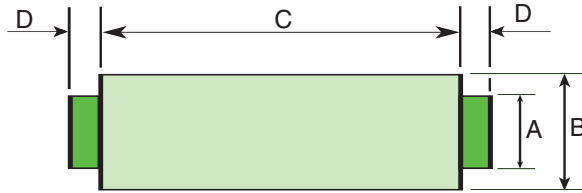


Filter boxes are available in 8 sizes with filter media to BS EN 779 rating G3 with 85% arrestance. Filter access via a removable panel. Casings are manufactured from galvanised sheet steel.

Dia.	A	B	C
100/125	155	200	200
150	155	250	250
200	155	250	250
250	200	300	300
315	300	440	440
355	350	440	440
400	400	440	440
500	500	550	550

Note: For product codes please refer to price list

SILENCERS



Cylindrical in-line attenuators suitable for use with circular spigoted fans such as Jetflow, Hideaway and Quietflow or general use in circular ducted systems.

The casing is manufactured from galvanised mild steel with one piece spun ends.

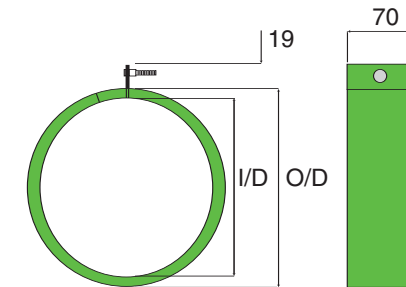
An inner lining of pre-galvanised, perforated mild steel encloses mineral fibre sound absorbing material with glass facing tissue.

Note: These silencers are not suitable for saturated conditions - Refer to Elta Fans.

Dia.	Fan Dia.	A	B	C 1D	C 2D	C 3D	C 4D	D	Estimated Weight (kg)			
									1D	2D	3D	4D
0100-JF*	100	98	204	300	600	900	1200	40	2.5	4.6	6.7	8.7
0125-JF*	125	123	230	300	600	900	1200	40	2.9	5.4	7.8	10.2
0150-JF*	150	148	255	300	600	900	1200	40	3.4	6.1	8.9	11.6
0160-JF*	160	158	265	300	600	900	1200	40	3.5	6.4	9.3	12.2
0200-JF*	200	198	305	300	600	900	1200	40	4.2	7.6	11.0	14.5
0250-JF*	250	248	355	300	600	900	1200	40	5.0	9.1	13.2	17.3
0300-JF*	300	298	405	300	600	900	1200	40	5.9	10.6	15.4	20.2
0315-JF*	315	313	420	300	600	900	1200	40	6.1	11.1	16.1	21.0
0355-JF*	355	353	460	300	600	900	1200	40	6.8	12.3	17.8	23.3
0400-JF*	400	398	505	300	600	900	1200	40	7.5	13.6	19.8	25.9

* Add 1,2,3 or 4 depending on length required.

FAST CLAMPS



Galvanised steel circular duct clamp with foam lining. For quick and easy connection of circular spigoted fans and accessories.

Model	Fan Dia.	I/D	O/D
0100-CLAMP	100	92	116
0125-CLAMP	125	117	141
0150-CLAMP	150	142	166
0160-CLAMP	160	152	176
0200-CLAMP	200	192	216
0250-CLAMP	250	242	266
0315-CLAMP	315	307	331
0355-CLAMP	355	347	371
0400-CLAMP	400	392	416
0500-CLAMP	500	492	516