

HIDEAWAY SH

Low Profile Box Fan

ELTA

>> **Select** models available for next day delivery



HIDEAWAY SH

Product Overview

- 6 standard sizes from 100mm to 315mm
- Air volume flow rates up to 0.832 m³/s
- Static pressures up to 451 Pa
- Suitable for operating temperatures up to +60°C
- Redesigned casing to improve airflow and reduce specific fan powers.
- Acoustically lined internally to reduce breakout noise levels.
- Low Specific Fan Powers
- Available in **EC**

The Hideaway SH low profile box fan is perfect for applications where space is a premium. The Hideaway incorporates a high efficiency jet design double mixed flow impeller.

Low Noise

Each unit is acoustically lined internally with Class O rated (BS 476 Parts 6 and 7) fire resistant acoustic foam lining minimising breakout noise levels.

Easy Commissioning

Integrated commissioning control allowing single speed selection and also limiting maximum speed if used with an external potentiometer.

Space saving

Ideal for very shallow ceiling voids or where space is at a premium.

Efficient Performance

Low power consumption at high performance resulting in Low Specific Fan Powers for Building Regulation Compliance.

Controllability

EC motors providing precise speed control via potentiometer, 0-10VDC or PWM Circuit. A potentiometer controller is available for manual control. Reduced fan speed can provide significant cost-savings through lower energy consumption in both mechanical energy of motors and also on the conditioning of replacement air.

Construction

A robust 1.2mm galvanised mild steel sheet casing. Each casing provides spigots to suit standard circular ducting. A removable lid is provided as standard to allow easy maintenance and cleaning.

Motor

A brushless EC motor is fitted as standard. The IPX4 motor contains sealed for life bearings. All motors are suitable for use in ambient air conditions up to +60°C.

Impeller

High efficiency jet design double mixed flow impeller, directly driven by the motor to provide a smooth airflow through the unit.

Typical Applications

- Bathroom and Kitchen Extract in Apartments
- Hotels
- Residential Properties
- Libraries
- Offices

Warranty

Each SH has a 12 month warranty.



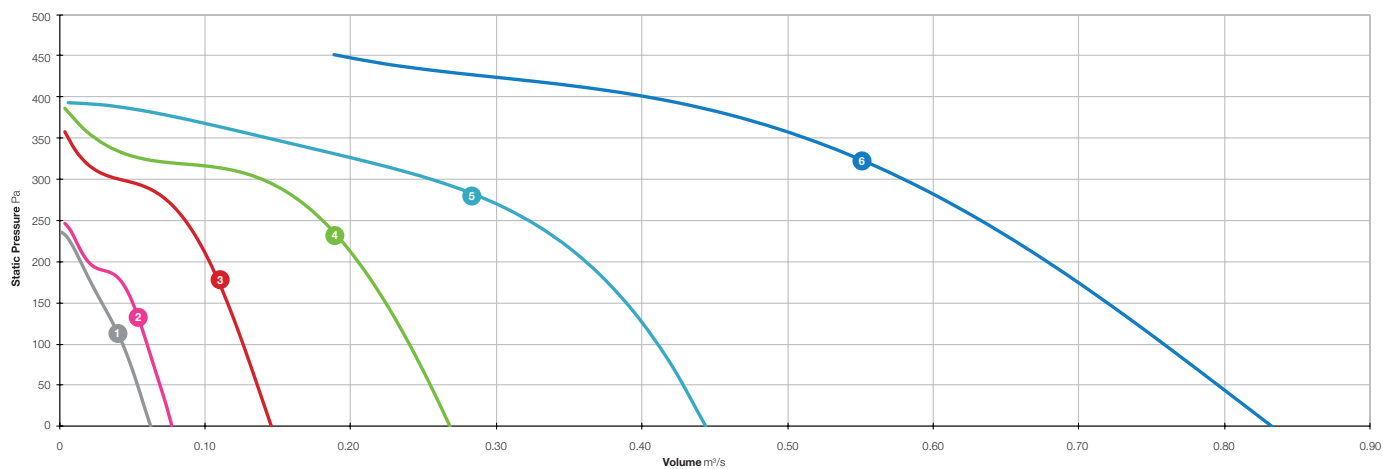
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Product Coding

Code	Reference
SH	Product Range
125	Duct Connection (diameter mm)
-	
1	Voltage Supply (Single Phase / Three Phase)
L	Acoustically Lined
C	Model Release
e.g.	SH125-1LC

Performance Range Curves



1 SH100-1LC
2 SH125-1LC

3 SH150-1LC
4 SH200-1LC

5 SH250-1LC
6 SH315-1LC

Performance, SFP & Electrical Data

Single Phase 220V to 240V / 50Hz or 60Hz

Product Code	Control Voltage V	Speed r/min	Airflow SFP	Airflow m³/s @ Static Pressure Pa											At Best Efficiency Point		Electrical Data	dBA @ 3m	
				0	25	50	75	100	150	200	250	300	350	400	Overall Eff %	Input kW	Peak Amps		
SH100-1LC	10	5000	m³/s	0.063	0.058	0.053	0.049	0.043	0.029	0.014	-	-	-	-	29.4	0.021	0.30	Inlet	46
			W/(L/s)	0.34	0.36	0.40	0.44	0.50	0.68	1.39	-	-	-	-				Outlet	47
			Breakout	45															
	7.5	3750	m³/s	0.054	0.049	0.043	0.037	0.029	0.012	-	-	-	-	-	27.8	0.014	0.15	Inlet	42
			W/(L/s)	0.27	0.30	0.34	0.39	0.48	1.08	-	-	-	-	-				Outlet	43
			Breakout	41															
	5	2500	m³/s	0.040	0.032	0.023	0.012	0.002	-	-	-	-	-	-	23.0	0.007	0.08	Inlet	36
			W/(L/s)	0.17	0.22	0.30	0.54	2.71	-	-	-	-	-	-				Outlet	36
			Breakout	35															
SH125-1LC	10	5000	m³/s	0.077	0.073	0.068	0.064	0.060	0.050	0.020	-	-	-	-	30.1	0.027	0.25	Inlet	47
			W/(L/s)	0.31	0.33	0.36	0.39	0.44	0.54	1.10	-	-	-	-				Outlet	48
			Breakout	36															
	7.5	3750	m³/s	0.064	0.060	0.056	0.051	0.045	0.012	-	-	-	-	-	33.5	0.018	0.18	Inlet	43
			W/(L/s)	0.23	0.26	0.30	0.34	0.40	1.13	-	-	-	-	-				Outlet	44
			Breakout	34															
	5	2500	m³/s	0.048	0.042	0.035	0.023	0.001	-	-	-	-	-	-	28.9	0.009	0.09	Inlet	37
			W/(L/s)	0.16	0.20	0.25	0.35	5.18	-	-	-	-	-	-				Outlet	37
			Breakout	28															
SH150-1LC	10	4980	m³/s	0.145	0.140	0.135	0.130	0.125	0.115	0.102	0.086	0.040	0.005	-	53.7	0.051	0.42	Inlet	50
			W/(L/s)	0.28	0.30	0.32	0.35	0.37	0.43	0.49	0.59	1.01	7.46	-				Outlet	51
			Breakout	39															
	7.5	3735	m³/s	0.127	0.120	0.113	0.106	0.099	0.083	0.057	0.010	-	-	-	50.4	0.032	0.27	Inlet	46
			W/(L/s)	0.22	0.24	0.26	0.29	0.32	0.39	0.53	2.44	-	-	-				Outlet	47
			Breakout	36															
	5	2490	m³/s	0.095	0.082	0.071	0.061	0.049	-	-	-	-	-	-	42.9	0.015	0.14	Inlet	40
			W/(L/s)	0.14	0.17	0.21	0.24	0.30	-	-	-	-	-	-				Outlet	40
			Breakout	30															
SH200-1LC	10	3770	m³/s	0.268	0.261	0.254	0.247	0.240	0.224	0.205	0.180	0.138	0.024	-	56.8	0.099	0.76	Inlet	51
			W/(L/s)	0.28	0.30	0.32	0.34	0.36	0.42	0.48	0.55	0.67	3.02	-				Outlet	52
			Breakout	35															
	7.5	3225	m³/s	0.229	0.222	0.215	0.207	0.198	0.178	0.149	0.025	-	-	-	56.0	0.063	0.59	Inlet	48
			W/(L/s)	0.20	0.22	0.24	0.27	0.29	0.34	0.42	1.78	-	-	-				Outlet	49
			Breakout	33															
	5	2505	m³/s	0.174	0.166	0.156	0.144	0.127	-	-	-	-	-	-	57.2	0.029	0.25	Inlet	43
			W/(L/s)	0.13	0.15	0.17	0.20	0.23	-	-	-	-	-	-				Outlet	43
			Breakout	28															

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

ErP data in accordance with Regulation (EU) 1253/2014. Product category is NRVU. Measurement category used to determine energy efficiency: D.

A variable speed drive is integrated within the fan.

Peak Amps @ 230V / 1PH / 50Hz.

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.

Breakout levels are calculated from the tested inlet and outlet sound power levels using the ASHRAE breakout sound transmission calculation procedure.

Performance, SFP & Electrical Data

Single Phase 220V to 240V / 50Hz or 60Hz

Product Code	Control Voltage V	Speed r/min	Airflow SFP	Airflow m³/s @ Static Pressure Pa											At Best Efficiency Point		Electrical Data Peak Amps	dBA @ 3m	
				0	25	50	75	100	150	200	250	300	350	400	Overall Eff %	Input kW			
SH250-1LC	10	3200	m³/s	0.443	0.436	0.428	0.420	0.410	0.389	0.361	0.322	0.255	0.144	-	56.9	0.178	1.31	Inlet	55
			W/(L/s)	0.30	0.31	0.33	0.34	0.36	0.41	0.47	0.55	0.66	0.96	-				Outlet	56
																		Breakout	40
	7.5	2725	m³/s	0.383	0.373	0.363	0.352	0.340	0.313	0.276	0.186	-	-	-	59.3	0.108	1.00	Inlet	51
			W/(L/s)	0.21	0.23	0.24	0.26	0.28	0.34	0.40	0.52	-	-	-				Outlet	52
																		Breakout	39
	5	2040	m³/s	0.285	0.269	0.253	0.234	0.212	0.028	-	-	-	-	-	61.9	0.046	0.37	Inlet	45
			W/(L/s)	0.13	0.14	0.16	0.19	0.22	1.38	-	-	-	-	-				Outlet	45
																		Breakout	32
SH315-1LC	10	3000	m³/s	0.832	0.814	0.795	0.777	0.758	0.719	0.678	0.632	0.579	0.512	0.403	55.9	0.389	2.72	Inlet	62
			W/(L/s)	0.38	0.40	0.42	0.44	0.46	0.50	0.55	0.61	0.67	0.75	0.90				Outlet	62
																		Breakout	63
	7.5	2250	m³/s	0.721	0.697	0.674	0.651	0.628	0.580	0.528	0.464	0.365	-	-	55.8	0.255	1.82	Inlet	58
			W/(L/s)	0.30	0.31	0.33	0.35	0.38	0.42	0.48	0.55	0.67	-	-				Outlet	58
																		Breakout	60
	5	1500	m³/s	0.538	0.503	0.469	0.435	0.402	0.331	-	-	-	-	-	56.1	0.110	0.89	Inlet	52
			W/(L/s)	0.18	0.20	0.22	0.24	0.27	0.33	-	-	-	-	-				Outlet	52
																		Breakout	53

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

ErP data in accordance with Regulation (EU) 1253/2014. Product category is NRVU. Measurement category used to determine energy efficiency: D.

A variable speed drive is integrated within the fan.

Peak Amps @ 230V / 1PH / 50Hz.

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.

Breakout levels are calculated from the tested inlet and outlet sound power levels using the ASHRAE breakout sound transmission calculation procedure.

Sound Data

Single Phase 220V to 240V / 50Hz or 60Hz

Product Code	Control Voltage V	Speed r/min		Sound Power Level dBW @ Octave Band Hz								Total dB
				63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
SH100-1LC	10	5000	Inlet	50	47	53	62	59	60	58	57	67
			Outlet	47	47	55	63	60	60	60	58	68
			Breakout	28	29	41	53	56	59	60	60	65
	7.5	3750	Inlet	43	44	51	58	55	57	54	53	63
			Outlet	47	44	52	59	55	57	56	53	64
			Breakout	24	26	39	49	51	56	56	55	61
	5	2500	Inlet	49	42	49	52	49	52	48	47	58
			Outlet	45	41	48	52	49	51	50	47	58
			Breakout	26	24	36	42	45	51	50	49	56
SH125-1LC	10	5000	Inlet	51	48	54	63	60	61	59	58	68
			Outlet	48	48	56	64	61	61	61	59	69
			Breakout	33	28	33	50	50	48	49	51	57
	7.5	3750	Inlet	44	45	52	59	56	58	55	54	64
			Outlet	48	45	53	60	56	58	57	54	65
			Breakout	28	25	32	47	48	47	48	47	54
	5	2500	Inlet	50	43	50	53	50	53	49	48	59
			Outlet	46	42	49	53	50	52	51	48	59
			Breakout	30	23	29	40	42	42	42	41	49
SH150-1LC	10	4980	Inlet	54	51	57	66	63	64	62	61	71
			Outlet	51	51	59	67	64	64	64	62	72
			Breakout	34	30	37	52	50	52	54	52	59
	7.5	3735	Inlet	47	48	55	62	59	61	58	57	67
			Outlet	51	48	56	63	59	61	60	57	68
			Breakout	28	29	36	49	49	50	51	49	57
	5	2490	Inlet	53	46	53	56	53	56	52	51	62
			Outlet	49	45	52	56	53	55	54	51	62
			Breakout	30	27	33	42	43	45	45	43	51
SH200-1LC	10	3770	Inlet	73	56	57	66	65	66	65	62	76
			Outlet	58	55	61	67	65	67	66	63	73
			Breakout	42	29	40	51	49	50	48	47	56
	7.5	3225	Inlet	57	50	57	61	62	63	61	57	69
			Outlet	52	53	60	64	62	64	62	59	70
			Breakout	33	29	42	51	47	47	44	43	55
	5	2505	Inlet	46	47	56	55	58	59	55	52	64
			Outlet	48	48	58	58	57	59	56	52	65
			Breakout	25	25	40	45	43	42	38	37	50
SH250-1LC	10	3200	Inlet	72	58	65	72	70	69	48	65	78
			Outlet	77	60	67	72	70	70	49	67	80
			Breakout	57	35	45	58	57	52	50	51	63
	7.5	2725	Inlet	54	57	64	66	66	66	64	60	73
			Outlet	53	58	70	66	66	67	65	62	75
			Breakout	32	37	47	53	55	53	50	49	60
	5	2040	Inlet	48	51	60	59	60	60	56	52	67
			Outlet	51	53	61	59	60	61	57	53	67
			Breakout	28	31	41	46	49	47	42	41	53
SH315-1LC	10	3000	Inlet	82	88	86	78	76	73	69	63	91
			Outlet	84	88	86	79	76	75	69	63	92
			Breakout	70	77	84	82	79	75	65	59	88
	7.5	2250	Inlet	80	87	79	74	74	69	65	59	89
			Outlet	81	87	79	74	73	71	65	59	89
			Breakout	67	76	76	78	77	71	61	54	83
	5	1500	Inlet	75	84	75	67	66	61	57	50	85
			Outlet	76	82	75	68	65	63	56	49	84
			Breakout	62	72	72	72	69	63	53	45	78

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

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.

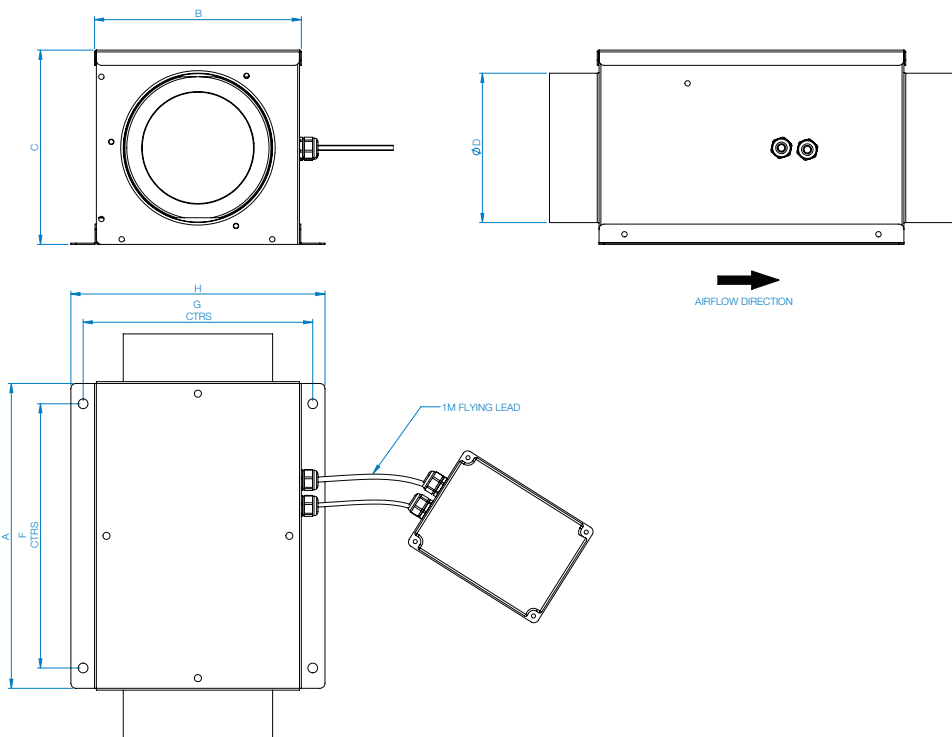
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Breakout levels are calculated from the tested inlet and outlet sound power levels using the ASHRAE breakout sound transmission calculation procedure.

Dimensional Data

Single Phase

Product Code	A	B	C	D	E	F	G	H	Weight kg
SH100-1LC	304	204	180	97	398	260	226	250	5
SH125-1LC	304	204	180	122	398	260	226	250	5
SH150-1LC	304	204	191	147	398	260	226	250	6
SH200-1LC	404	255	236	197	498	306	277	301	9
SH250-1LC	404	304	301	247	498	360	326	350	9
SH315-1LC	404	369	361	312	498	360	391	415	19



Dimensions are in mm.

Single Phase

Product Code	EC Electronic Controller	Fast Clamps (each)	Damper	Panel Filter	Electric Heater Battery	Wiring Diagram
SH100-1LC	149-POT-10-MI	018-100-CLAMP	018-100-DAMPER	018-0100-FILT-P	018-CV10-06-1M	152-554
SH125-1LC	149-POT-10-MI	018-125-CLAMP	018-125-DAMPER	018-0125-FILT-P	018-CV12-12-1M	152-554
SH150-1LC	149-POT-10-MI	018-150-CLAMP	018-150-DAMPER	018-0150-FILT-P	018-CV15-27-1M	152-554
SH200-1LC	149-POT-10-MI	018-200-CLAMP	018-200-DAMPER	018-0200-FILT-P	018-CV20-30-1M	152-554
SH250-1LC	149-POT-10-MI	018-250-CLAMP	018-250-DAMPER	018-0250-FILT-P	018-CV25-30-1M	152-554
SH315-1LC	149-POT-10-MI	018-315-CLAMP	018-315-DAMPER	018-0315-FILT-P	018-CV31-30-1M	152-554
					018-CV31-45-1M	
					018-CV31-90-3M	

HIDEAWAY SH

Notes

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