HERITAGE SMOKE-SPILL SERIES

Description

The Heritage Smoke-Spill Series of vertical discharge centrifugal roof units has been developed and tested for hot smoke exhaust applications. They are constructed from durable galvanised steel and feature a removable windband which provides easy access for cleaning and maintenance. There are 6 sizes in the series extending from 315 to 560mm diameter.

Typical Applications

Smoke-spill exhaust systems in commercial or industrial applications such as office buildings, shopping centres and universities. Can also be used for dual purpose in standard exhaust installations.

Features

- Durable all galvanised steel construction.
- Available in a range of speeds to suit specific applications.
- Windband can be easily removed to allow easy access for cleaning and maintenance.
- To maintain reliable operation, motor is mounted out of the airstream.
- Can be mounted at angles up to 15°C.

Smoke-Spill Standards

Designed to comply with the air performance and high temperature requirement of Standards AS/NZS1668.1:1998 and AS4429:1999. Both Standards are mandatory for smoke-spill installations.

Tests up to 300°C for 2 hours have been successfully concluded.

Backdraft dampers are not fitted to these units so fail-open latching devices are not required.

Construction

Cowls are of galvanised steel. Impellers are backward-curved centrifugal design.

Motor

Type - Standard TEFC squirrel cage induction motors.

Electricity supply - 415V, three-phase, 50Hz.

Ball Bearing - sealed for life.

Multi-speed motors can be supplied.

Motors are selected to suit the nominated smoke-spill temperature requirements as prescribed in AS/NZS1668.1:1998

See pages O-3/4 and C-8 for details on these motors.

Noise Data

Model CHS...	In-Duct Spectrum Corrections, dB* 63	125	250	500	1k	2k	4k	8k
314	35	29	21	18	10	10	8	2
316	34	26	22	18	12	12	6	0
354	28	26	22	19	10	12	11	1
356	33	25	22	19	14	8	3	0
404	28	26	21	18	11	12	12	5
406	33	28	22	19	14	10	7	3
454	27	25	20	17	11	12	12	8
456	31	30	21	18	13	11	9	5
504	26	26	21	15	12	12	12	9
506	30	29	22	16	12	10	8	6
564	26	27	23	14	13	12	12	10
566	29	29	23	15	12	10	8	7
568	30	27	22	15	15	11	11	6

* Add the In-Duct Spectrum Corrections to the closest dB(A) level shown on the fan curve to obtain the In-Duct Sound Power Level on the Inlet Side of the Unit.

Internal Thermal Protection

Thermisters can be fitted on request. If fitted they must not operate under smoke-spill mode.

Testing

Airflow tests to ISO5801:2007

Noise tests to ISO3744:2010

Wiring Diagram

See page N-6, diagrams DD 1, 2, 3.

Suggested Specification

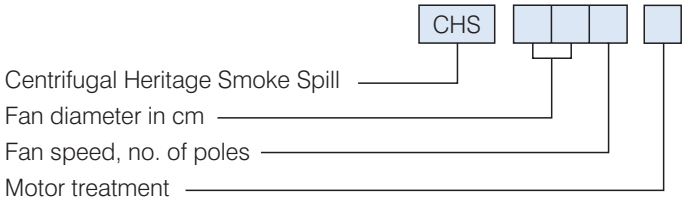
The roof ventilators shall be of the Heritage Smoke-Spill Series vertical discharge type as designed and manufactured by Elta Fans.

The cowl shall be of galvanised steel. Impellers shall be backward-curved centrifugal design and driven by motors selected to suit the elevated temperatures of the nominated smoke-spill application.

All performance data shall be based on tests on a complete assembled unit to ISO5801:2007 for airflow and ISO3744: 2010.

Smoke-spill tests shall be to AS/NZS1668.1:1998 and AS4429:1999.

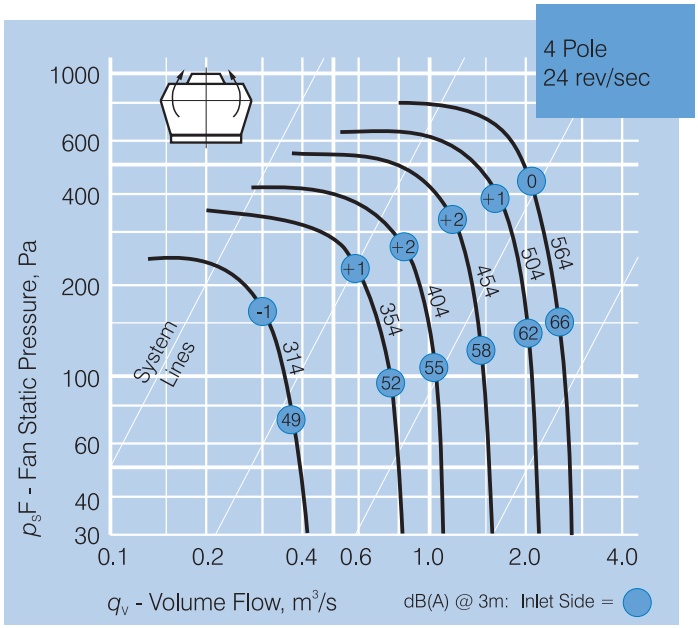
How To Order

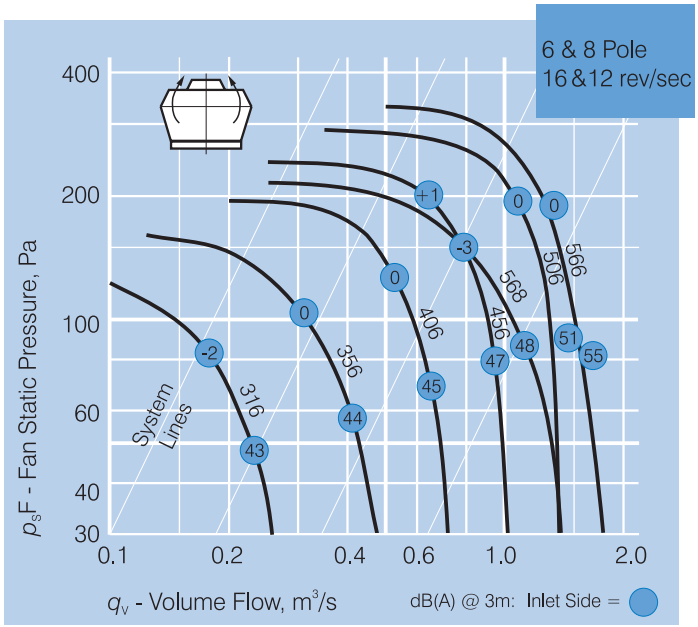


HERITAGE SMOKE-SPILL SERIES

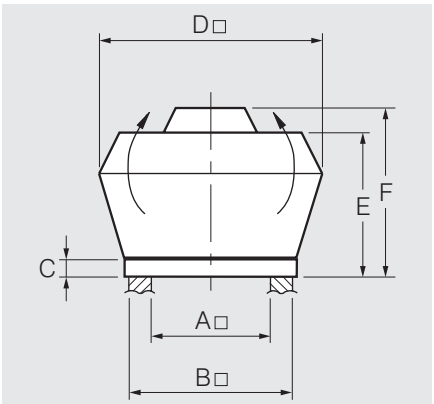
Model CHS...	Nom. Speed rev/sec	Avg. dB(A) @ 3m Low Airflow	High Airflow	Motor kW 3 ph.
314	24	48	49	0.55
316	16	41	43	0.37
354	24	53	52	0.55
356	16	44	44	0.37
404	24	57	55	0.55
406	16	45	45	0.37
454	24	60	58	0.55
456	16	48	47	0.37
504	24	63	62	1.1
506	16	51	51	0.37
564	24	66	66	2.2
566	16	55	55	0.75
568	12	45	48	0.37

Amperages for motors can be obtained at the time of order or from the motor nameplate.





Dimensions



Model Number CHS.. 3ph.	Dimensions, mm A□	B□	C	D□	E	F max.	Approx.* weight kg.	Approx volume m³
314/6	310	410	50	520	310	540	16	0.1
354/6	400	500	50	665	420	550	26	0.22
404/6	400	500	50	665	420	570	26	0.22
454/6	620	720	60	900	540	790	49	0.5
504/6	620	720	60	900	540	820	57/51	0.5
564/6/8	620	720	60	900	540	850	65/56/55	0.5

* Unit weights depend on the make of motor used. If critical this should be referred to our sales department at time of order.

Elta Fans Asia

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At Elta Fans we are dedicated to the continuous research and development of all our products. To provide you with the very best in air movement and ventilation, products supplied may differ from those illustrated and described in this publication. Confirmation of dimensions and data can be supplied on request from our team.

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