

Technical Data

DE - DAVE Extract Fan with Ecosmart Control

Inline Centrifugal Extract Fan

Fan Code: **DE5-ES**

Installation Manual Links: 611280

Required Duty: 0.33 m³/s @ 60 Pa

Actual Duty: 0.58 m³/s @ 185 Pa

Actual at Required Flow: 0.33 m³/s @ 473 Pa

Velocity at Actual Duty: 7.445 m/s

When Speed Controlled to Required Duty (56.8%):

Velocity at Required Duty: 4.235 m/s

Motor Input Power: **0.096 kW**

Specific Fan Power: **0.3 W/(l/s)**

Motor Efficiency: 0 %

Motor Input Power: 0.521 kW

Specific Fan Power: 0.9 W/(l/s)

Nominal Fan Speed: 2,250 RPM

Electrical Supply: 230 V 1 Phase 50 Hz

Motor Rating: 0.5 kW

Motor Current: flc: 2.2 A

Motor Current: sc: 2.2 A

Max. Operating Temp.: 60°C

Acoustic performance to ISO 13347 and AMCA 300.

Sound Power Levels re 1 pWatts (Hz):

	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	85	84	67	63	50	49	48	43	
Induct Outlet	87	85	69	64	56	51	46	40	
Breakout	70	65	59	48	40	31	26	21	37

The above spectrums running speed controlled to required duty (56.9%). When running at full speed:

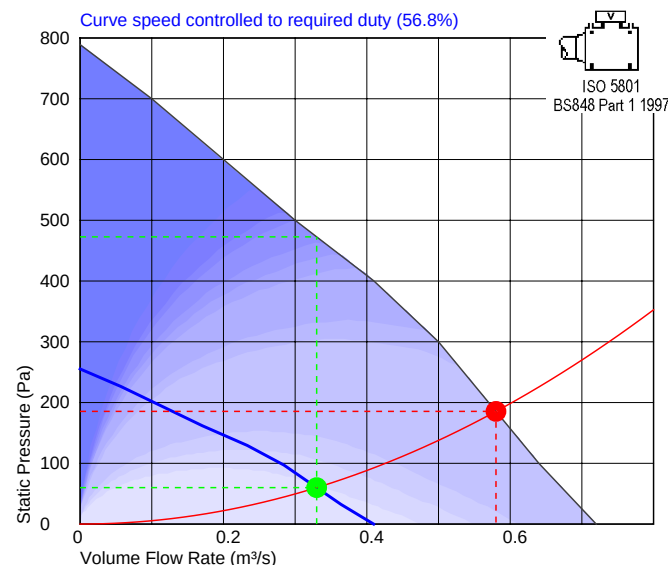
Induct Inlet	89	89	74	72	63	62	61	56	
Induct Outlet	91	90	76	73	69	64	59	53	
Breakout	74	70	66	57	53	44	39	34	43

dBA is hemi-spherical at 3 metres. For spherical deduct 3 dBA.

Values shown are for inlet Lw, outlet Lw sound power & breakout levels for: Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

Please note that the noise data stated on this data sheet for the unit and/or silencer is tested in accordance with UK, European and International industry laboratory standards. However onsite conditions may vary and we would recommend that this information is verified by an acoustic specialist in order to ensure its suitability for the intended application.

Performance Curve



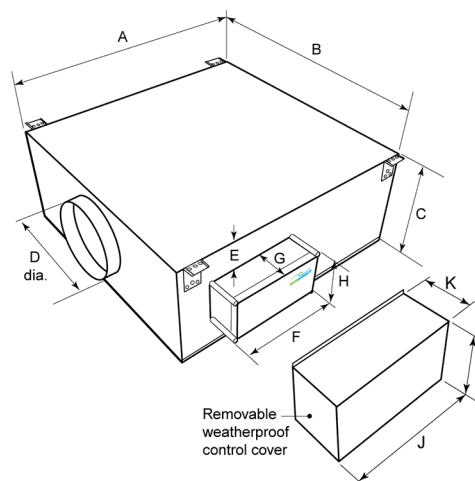
Specification

Dave high performance extract fan, standard case with patented 'Floating fan' construction. Single skin, with infill panels and manufactured from heavy gauge, corrosion resistant Aluzinc steel. The unit is suitable for internal or external mounting, in any orientation and incorporates a full length top or bottom access panel. The fan impeller and EC motors are selected to provide optimum performance and energy efficiency conforming to Part L regulations. Units are suitable for operation in ambient temperatures of up to 60°C (sizes 1-5), 40°C (sizes 6-7) and are Class L2 leakage. The unit shall be controlled by an integrated Ecosmart control mounted externally to the case. The fans shall have the following energy saving and operational functions integrally installed with in it, all components will be pre-wired and fitted by the manufacturer:

- Integral Frequency inverter/speed controller.
- Integral adjustable run-on timer.
- Maximum and minimum speed adjustment/setting (trickle and boost).
- Volt free run & failure/status indication.
- 0-10V BMS interface for remote operation.
- Multiple low voltage sockets for interconnection of sensors or fans.
- Background ventilation/trickle enable switch.

The unit is supplied with circular spigots and set of four mounting brackets. The Fan unit shall have a 5 year warranty. .

Fan Dimensions



A	B	C	D	E	F	G	H	J
605	992	420	315	140	370	96	150	470
K	L	kg						
120	170	59						

The drawing is for dimensional purposes only. Dimensions in mm.