



SUMMARY FAN DATA SHEET

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Whilst the information given on this data sheet is fan specific, it is in summary and reference to the product selection catalogue and installation & maintenance documents is recommended.

This data sheet produced on 22 Apr 2021 10:55 using software version 4.7.3871.0

Project Details

Location: EF/RF/01

Technical Data

DE - DAVE Extract Fans

Fan Code: **DE4H-ES-C4**
Installation Manual Links: **611280**

Required duty: 0.241 m³/s at 290 Pa
Actual duty: 0.33 m³/s at 542 Pa
Actual at required flow: 0.241 m³/s at 718 Pa

When speed controlled to required duty (73.12%):

Motor Input Power: **0.212 kW**
Specific Fan Power: **0.9 W/(l/s)**
Velocity at required duty: 4.91 m/s

At full speed:

Motor Input Power: 0.541 kW
Specific Fan Power: 1.6 W/(l/s)
Maximum Fan Speed: 3,700 RPM
Electrical Supply: 230V, 1 Phase, 50 Hz
Nominal Motor Rating: 0.49 kW
Motor current (flc): 3.3 A
Motor starting current (sc): 3.3 A
Max. operating temp: 60°C
Weight: 40 kg

Sound Data

Acoustic performance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (73.12%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	79	77	65	73	62	61	57	64	
Induct Outlet	88	88	71	69	65	63	58	59	
Breakout	64	62	52	52	43	39	32	30	35
For 100% speed:	+2	+3	+4	+5	+7	+7	+7	+7	

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

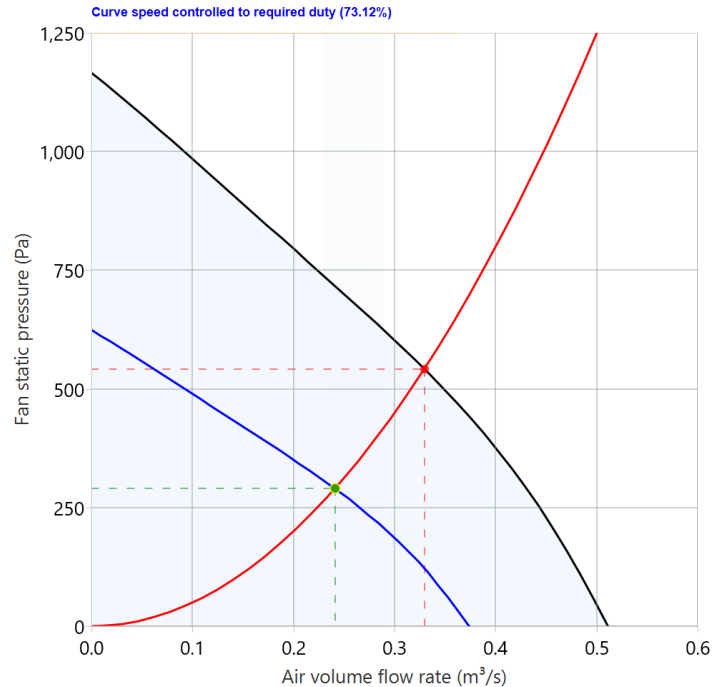
Values shown are for inlet Lw, outlet Lw sound power & breakout levels for: Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

D-SIL-250M

At all volumes -1 -3 -7 -17 -36 -21 -15 -15

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 Chart



Additional Notes

Selected Ancillaries

2 x CFC25 Flexible connector
1 x D-SIL-250M Circular Attenuator 915mm
1 x ES-UCF Ecosmart Fan User Control

CFC25 - Flexible connector

Weight: 0.5 kg

D-SIL-250M - Circular Attenuator 915mm

Size: 915 mm (L) 355 mm (W) 355 mm (H)

Spigot Size (mm): 250

Weight: 14.0 kg

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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. Suitable for Coastal Environment. 1 year warranty (UK and Ireland only).

CFC25

Circular flexible connector without flanges. Flexible duct material is flameproof and resistance to heat up to 132°C, chemicals, ozone, oil and grease. The material is airtight, waterproof and tested to BS476 Part 7. Supplied complete with fixing straps.

ES-UCF

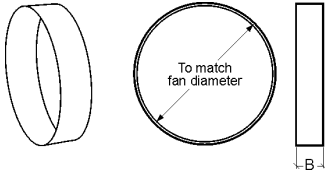
Ventilation user control compatible with Ecosmart system.

- ES-UCF User Control - supplied with a pre-plugged, 10M length of communications cable. The ES-UCF control is used to switch the fan on/off and adjust the fan speed.

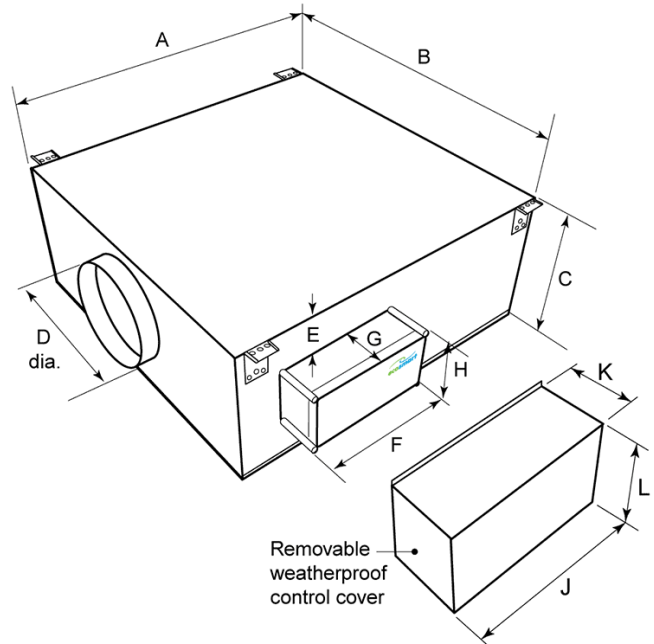
Ancillary Dimensions

CFC25 - Flexible connector

B=150 mm



Fan Dimensions



A	B	C	D	E	F	G	H	J
605	848	380	250	131	370	96	150	470
K	L	kg						
120	170	40.0						
Length:	Width:	Height:						
605	848	380						

Drawing is for dimensional purposes only. Dimensions in mm.