

Nuaire, Western Industrial Estate, Caerphilly, CF83 1NA, United Kingdom. email:info@nuaire.co.uk

UK Commercial enquiries T:029 2085 8200 UK Residential enquiries T:029 2085 8500 International enquiries T:+44.29 2085 8497

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 10 Sep 2025 14:56 using software version 5.8.4606.0

Project: 24/24076/COM

SIMPLY UK - PAGHAM

Location: Kitchen

Technical Data

NVU - Roof Upblast

Fan Code: NVU500-4F8

Maximum Fan Speed: 4 pole, 1,450 RPM
Electrical Supply: 400V, 3 Phase, 50 Hz
Nominal Motor Rating: 1.342 kW
Motor current (flc): 2.6 A
Motor starting current (sc): 18.2 A
Motor Efficiency: IE3 / Premium Efficiency

Weight: 83.7 kg

Protection Class: IP55

Insulation: F



0086-CPR-741804 CE 2797-CPR-672476 EN 12101-3:2015:

Powered Smoke and heat exhaust ventilators for use in buildings. Application Classes; Thermally uninsulated; Out of smoke reservoir; Vertical shaft upwards; Dual purpose Class F400 – 400°C / 120 mins. Motor rating Class F, B

Sound Data

Noise calculated speed controlled to required duty (100%)

Sound Power Levels re 1 pWatts (Hz):

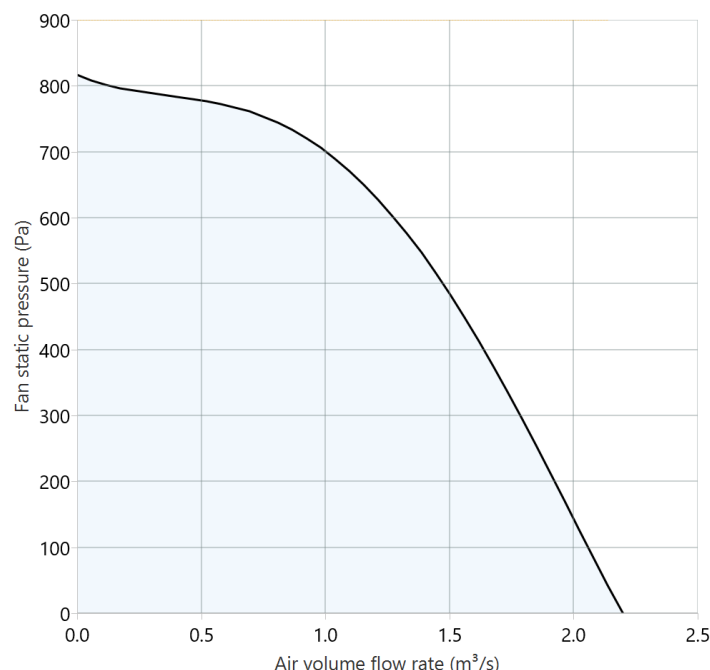
Hz	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	79	91	80	73	71	69	64	62	58
Open Inlet	72	87	79	73	71	69	64	62	57
Open Outlet	75	89	83	78	76	71	66	61	60
Induct Inlet	81	95	83	75	73	70	65	68	61
Open Inlet	74	91	82	75	73	70	65	68	59
Open Outlet	77	90	85	80	77	71	67	63	62
Induct Inlet	81	96	85	78	75	72	69	72	63
Open Inlet	74	92	84	78	75	72	69	72	61
Open Outlet	76	92	87	82	79	73	70	70	64
For 100% speed:	+0	+0	+0	+0	+0	+0	+0	+0	

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

Values shown are for inlet Lw, outlet Lw sound power & breakout levels for: Installation Type C: ducted inlet, free 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 Chart



Additional Notes

Please note the unit has been selected without any airflow rates or resistances. Please see the unit data sheets for the full technical, dimensional and sound information on the unit offered for suitability.

ErP Directive 2015 Compliant

The following information confirms compliance with EU 327/2011 as required by ErP Directive 2009/125/EC. Only applicable within EU states.

Efficiency grade:	72
Overall efficiency:	63.7 %
Measurement category:	A
Efficiency category:	Static
Variable speed drive:	A variable speed drive must be installed with this fan
Input power at best point:	1.506 kW
Volume flow at best point:	1.63 m³/s
Pressure at best point:	576 Pa
Speed:	1,450 RPM
Specific ratio:	1.02

Specification

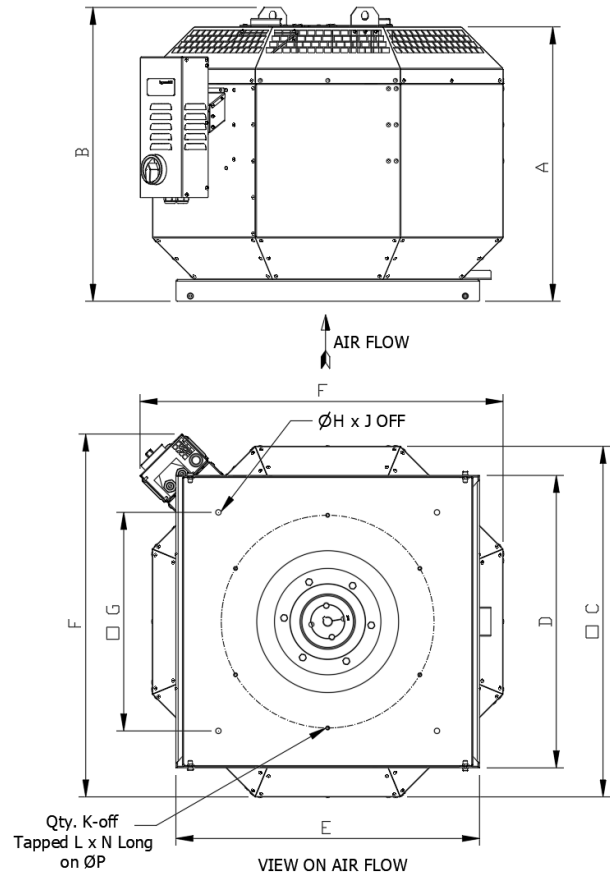
Vertical up blast (Dual Purpose) roof composite mounted extract fan, suitable for continuous operation up to a maximum temperature of 200°C & once off emergency extract 400°C for a maximum period of 2 hours. The unit features standard Class F, IP55 motor situated outside of the airstream and pre-wired IP55 lockable isolator fitted as standard. Case fabrication is from seawater-resistant aluminium with integrated grease pan and drain suitable for kitchen extract applications. The range is independently tested and certified to EN 12101-3:2015 for emergency extract and compliant with efficiency directive 327/2011 within the EU when operated via a frequency inverter. Where fans are connected to frequency inverter controls the electrical supply to the fan must bypass the inverter under fire conditions.



SUMMARY FAN DATA SHEET

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Fan Dimensions



A	B	C	D	E	F	G	H	J
737	776	902	674	697	901	535	11	4
K	L	N	P	kg				
6	6	15	438	83.7				

Drawing is for dimensional purposes only. Dimensions in mm.
Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.

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Project: 24/24076/COM

SIMPLY UK - PAGHAM

Location: SF1

Technical Data

DS - DAVE Supply Fans Plus

Fan Code: **DS7A-EES**

Installation Manual Links: **671679**

Required duty: **1 m³/s at 100 Pa**

Actual duty: **1.006 m³/s at 101 Pa**

Actual at required flow: **1 m³/s at 107 Pa**

When speed controlled to required duty (99.42%):

Motor Input Power: 0.741 kW

Specific Fan Power: 0.7 W/(l/s)

Velocity at required duty: **7.958 m/s**

At full speed:

Motor Input Power: **0.755 kW**

Specific Fan Power: **0.8 W/(l/s)**

Maximum Fan Speed: **1,650 RPM**

Electrical Supply: **230V, 1 Phase, 50 Hz**

Nominal Motor Rating: **0.775 kW**

Motor current (flc): **3.5 A**

Motor starting current (sc): **3.5 A**

Heater Power: **9 kW**

Heater Current (flc): **40 A**

Heater+Motor Current (flc): **43.5 A**

Max. operating temp: **40°C**

Weight: **105 kg**

All Ecosmart fans feature soft-starting and stepless variable speed control. A switch disconnector is required to isolate the fan from the electrical supply.

Sound Data

Acoustic performance to ISO 13347 and AMCA 300.

Noise calculated speed controlled to required duty (99.42%)

Sound Power Levels re 1 pWatts (Hz):

Hz	63	125	250	500	1k	2k	4k	8k	dBA
Induct Inlet	80	82	75	70	65	63	59	60	
Induct Outlet	86	81	67	65	63	58	56	51	
Breakout	67	62	62	52	51	42	36	35	39
For 100% speed:	+1	+1	+1	+1	+1	+1	+1	+1	

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

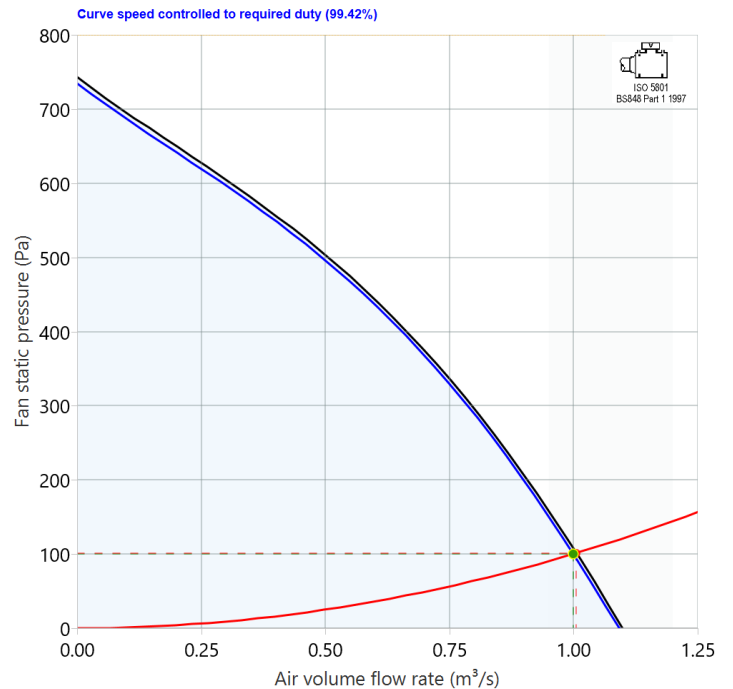
Values shown are for inlet Lw, outlet Lw sound power & breakout levels for: Installation Type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

D-SIL-400S

At all volumes -1 -2 -4 -9 -15 -7 -7 -6

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 CFCH40 Hi-temp flexible connector
- 2 x D-SIL-400S Circular Attenuator 600mm
- 1 x ES-UCFH Ecosmart Fan & Heater User Control

CFCH40 - Hi-temp flexible connector

Weight: 0.5 kg

D-SIL-400S - Circular Attenuator 600mm

Size: 600 mm (L) 505 mm (W) 505 mm (H)

Spigot Size (mm): 400

Weight: 14.0 kg

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Specification

Dave high performance supply unit with Electric heater and Thyristor control. Extended casing configuration 'A' with patented 'Floating fan' construction. Single skin, with infill panels and manufactured from heavy gauge, corrosion resistant Magnelis steel. Units have integrated attenuation pods to reduce noise breakout. Suitable for internal or external mounting and incorporating top or bottom access. 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) and 40°C (sizes 6-7). The unit is Class L2 leakage. Dave 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 G4 filter, circular spigots and set of four mounting brackets.

The Fan unit shall have a 5 year warranty. The product warranty applies to the UK mainland and in accordance with Clause 14 of our Conditions of Sale. Customers purchasing from outside of the UK should contact Nuaire International Sales office for further details.

CFCH40

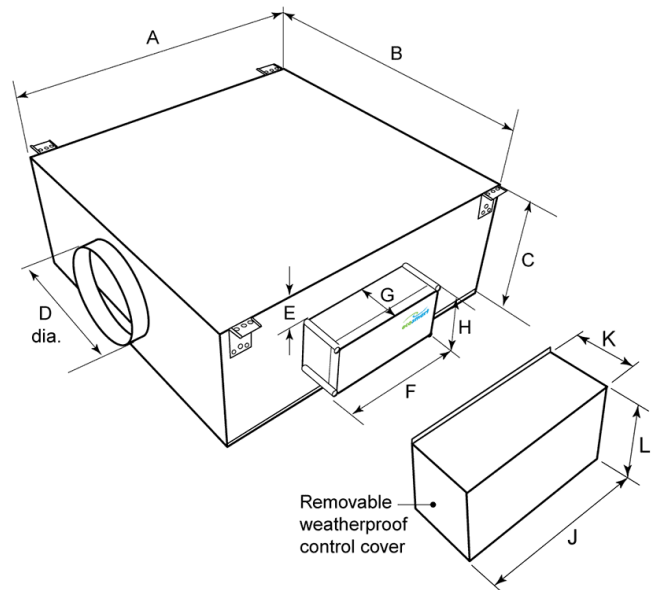
Circular flexible connector without flanges. Flexible duct material is flameproof and resistance to heat up to 400°C, chemicals, ozone, oil and grease. The material is airtight, waterproof and tested to BS476 Part 7. Supplied complete with fixing straps.

ES-UCFH

Ventilation and heating user control compatible with Ecosmart system.

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

Fan Dimensions



A	B	C	D	E	F	G	H	J
1154	1208	510	400	175	430	151	155	753
K	L	kg						
220	304	105.0						
Length: Width: Height:								
1154	1208	510						

Drawing is for dimensional purposes only. Dimensions in mm.

Please see selected ancillaries section for additional dimensions for any requested additional ancillaries.