SUMMARY FAN DATA SHEET

Nuaire Limited, 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

This data sheet produced on 20 Apr 2016 17:10 using software version 3.2.18.0566 - 26-February-2016

Technical Data

AVT - Internal Duct Mounted Twinfan
Internal Duct Mounted Twinfan

Fan Code:	**AVT1**
Installation Manual Links:	671565
Required Duty:	0.1 m³/s @ 100 Pa
Actual Duty:	0.133 m³/s @ 178 Pa
Actual at Required Flow:	0.1 m³/s @ 276 Pa

When Speed Controlled to Required Duty (75%):

Motor Input Power:	**0.036 kW**
Specific Fan Power:	**0.4 W/(l/s)**
Motor Input Power:	0.086 kW
Specific Fan Power:	0.6 W/(l/s)
Nominal Fan Speed:	3,300 RPM
Electrical Supply:	1 Phase
Nominal Motor Rating:	0.085 kW
Motor Current:	flc: 0.75 A
Motor Current:	sc: 0.75 A
Max. Operating Temp.:	40°C

Acoustic perfomance to BS848 Part 2.2 and AMCA 300.
Breakout Noise (dBA): 17 dBA @ 3m
Breakout level is spherical. For hemi-spherical add 3 dBA.

Sound Power Levels re 1 pWatts (Hz):

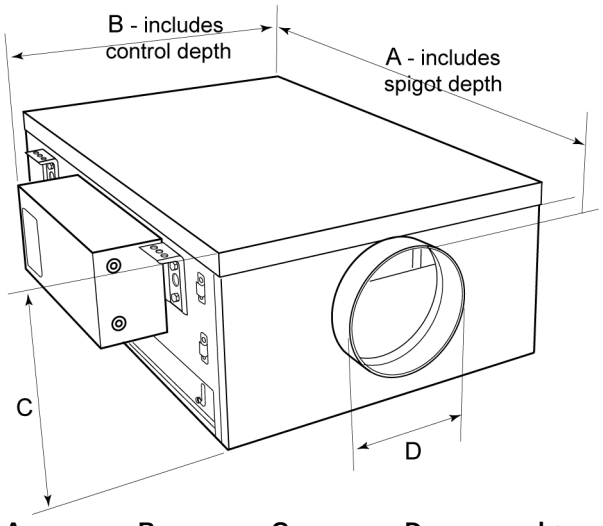
Hz	63	125	250	500	1k	2k	4k	8k
Induct Inlet	71	65	58	58	52	49	45	43
Induct Outlet	73	68	59	58	56	52	46	44
Breakout	59	50	39	29	18	<16	16	<16

Above noise calculated speed controlled to required duty (75%)

For 100% Speed:	+2	+3	+4	+5	+7	+7	+7	+7
Breakout Noise (dBA):	+3							

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

Fan Dimensions



A	B	C	D	kg
931	544	250	200	46

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

Project Details

Centre Point
Please See 13/14138
Location: CPW/FAN/01 - CPW Ecology Shaft Fan

Selected Ancillaries

2 x CFC20	Flexible connector
1 x NAV2	Anti-vibration mounting kit

Specification

The unit shall be double skinned with 35mm infil panels and shall be manufactured from heavy gauge, corrosion resistant Aluzinc steel, internally coated with acoustic material. Fully detachable panels for maintenance/service and pressure tapping. The fan should be with an 'inline assembly', positioned in series for optimum performance. Run and standby fan assemblies to incorporate fan impeller and EC motors selected to provide the most energy efficient solution conforming to part L regulations and have IE2 high efficiency motors to BS5000 as standard, with EN60034-30 motors fitted with Hall effect air flow failure monitoring, units suitable for operation in ambient temperatures of 40°C.

The twin fan shall be controlled by an integrated Ecosmart control panel mounted within the fan unit. The fans shall have the following energy saving and operational functions integrally installed within it, all components will be pre-wired and fitted by the manufacturer:

- Auto change-over on fan failure.
- Auto duty share every 12 hours of run time.
- 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.
- Low voltage interface with second fan or supply fan.
- Multiple low voltage sockets for interconnection of sensors or fans.
- Background ventilation/trickle enable switch.

Fan, Ecosmart controls and associated sensors/controllers shall be manufactured by Nuaire Ltd. The Fan unit shall have a 5 year warranty.

Performance Curve