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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 03 Dec 2024 11:11 using software version 5.8.4595.0

Project: n/a

Location:

Technical Data

EST19H & EST20H - Ecosmart Twinfans

Fan Code: **EST19H**
 Installation Manual Links: 671845
 Required duty: 1433 l/s at 250 Pa
 Actual duty: 2100 l/s at 537 Pa
 Actual at required flow: 1433 l/s at 1006 Pa

When speed controlled to required duty (68.23%):

Motor Input Power: **0.997 kW**
 Specific Fan Power: **0.7 W/(l/s)**
 Velocity at required duty: 4.597 m/s

At full speed:

Motor Input Power: 3.14 kW
 Specific Fan Power: 1.5 W/(l/s)
 Maximum Fan Speed: 2 pole, 2,600 RPM
 Electrical Supply: 400V, 3 Phase, 50 Hz
 Nominal Motor Rating: 3.2 kW
 Motor current (flc): 5.2 A
 Motor starting current (sc): 5.2 A

Max. operating temp: 40°C
 Weight: 232 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.

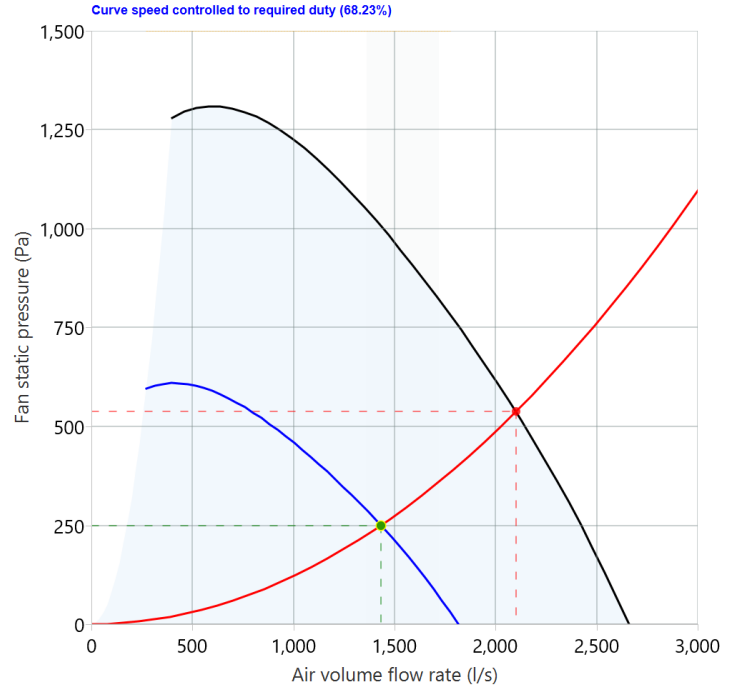
Noise calculated speed controlled to required duty (68.23%)

Sound Power Levels re 1 pWatts (Hz):									
Hz	63	125	250	500	1k	2k	4k	8k	dB(A)
Induct Inlet	91	86	87	82	77	76	70	66	
Induct Outlet	93	89	91	87	83	80	73	67	
Breakout	80	73	84	77	73	68	59	51	61
For 100% speed:	+3	+3	+5	+6	+9	+9	+9	+9	

dB(A) is hemi-spherical at 3 metres. For spherical deduct 3 dB(A).
 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 Chart



Additional Notes

Selected Ancillaries

2 x CFCH63 Hi-temp flexible connector
CFCH63 - Hi-temp flexible connector
 Weight: 2.0 kg

Specification

Ecosmart internal ducted twin fan unit manufactured from Magnelis. Internal chamber surfaces are acoustically treated. Fan assemblies incorporate backward curved centrifugal impellers directly driven by EC motors and fitted with air flow fail monitors. The fan should be fitted with an Ecosmart control together with an inverter speed controller. The fan shall have the following energy saving functions integrally mounted within the fan unit on a purpose made PCB, all components pre-wired by the manufacturer: integral maximum and minimum speed adjustment/setting; integral autochangeover/duty share, fans changeover every 12 hours of run time; integral adjustable run-on timer; integral BMS interfaces, 0-10v and volt free failure indication.

CFCH63

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.

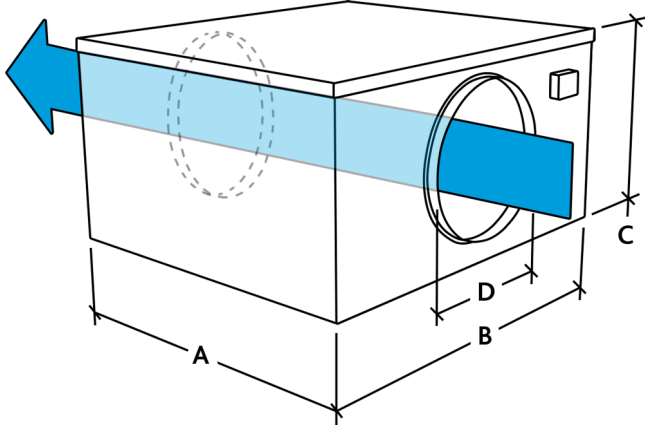
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Fan Dimensions



A	B	C	D	kg
1430	1635	780	630	232.0

Length: 1430
Width: 1635
Height: 780

Spigot size: 630

Drawing is for dimensional purposes only. Dimensions in mm.

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