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Zehnder AID100

Acoustically lined induct fan for purge ventilation

AID100

The Zehnder AID100 is an acoustically lined induct 100 mm fan. It is ideal for residential applications where the habitable rooms are at risk of overheating, or require purge ventilation due to sealed windows on noise sensitive sites or within a AQMA (Air Quality Management Area).

Example control - sold separately

SDC1

Key Benefits

- Acoustically lined to prevent nuisance running noise when active.
- Designed to fit within a ceiling void, cupboard or loft space.
- 100% variable speed control via optional SDC1 controller.
- Two predefined speeds possible (high / low) using switching by others without the need for SDC1 controller.
- Can be installed in any orientation, horizontal, vertical, on floor, wall or ceiling.
- 4 air changes an hour for rooms up to 13 m² per fan, large rooms can use multiple fans wired in parallel

Article Numbers

Description	Product Code
Unit	
Acoustic Induct fan, 100mm	AID100
Superduct controller, 1.5 amp	SDC1

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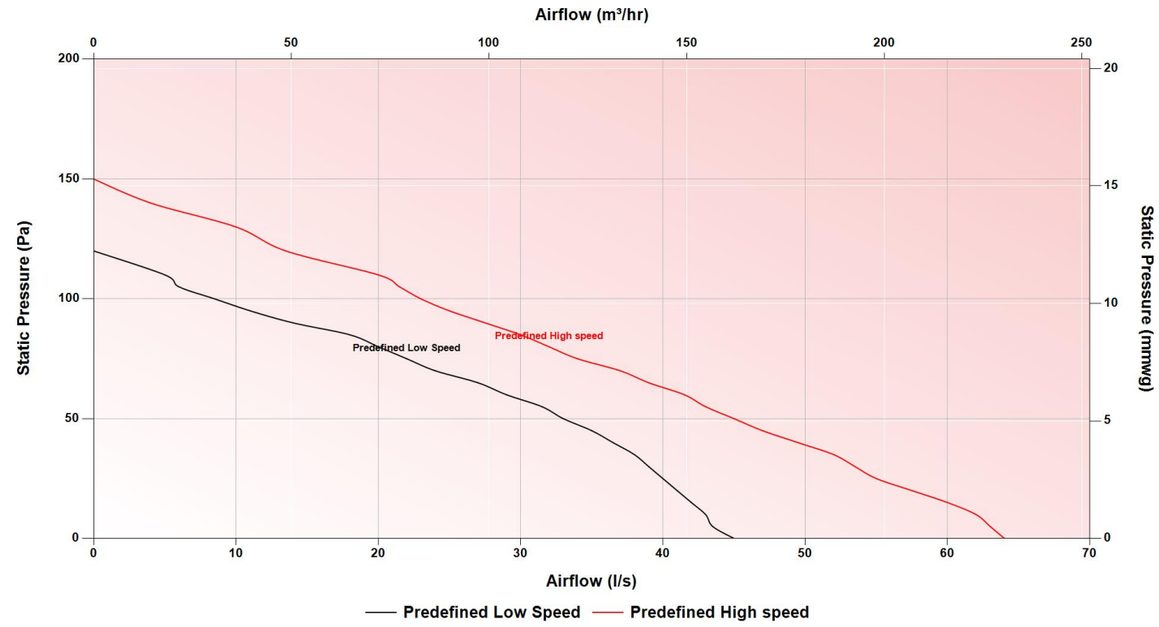
Pressure Curve



Sound Data

Setting	Test area	Octave Band (Hz) Sound Power Level, dB								dB(A) @ 3 m
		63	125	250	500	1000	2000	4000	8000	
Low	Inlet	44.0	46.0	53.0	46.0	45.0	43.0	40.0	39.0	
	Outlet	42.0	44.0	51.0	45.0	43.0	41.0	38.0	38.0	
	Environment	34.0	35.0	42.0	36.0	35.0	33.0	31.0	31.0	23.4
High	Inlet	51.0	55.0	56.0	61.0	55.0	53.0	50.0	48.0	
	Outlet	47.0	52.0	53.0	57.0	51.0	49.0	47.0	44.0	
	Environment	39.0	43.0	44.0	48.0	43.0	41.0	39.0	37.0	31.7

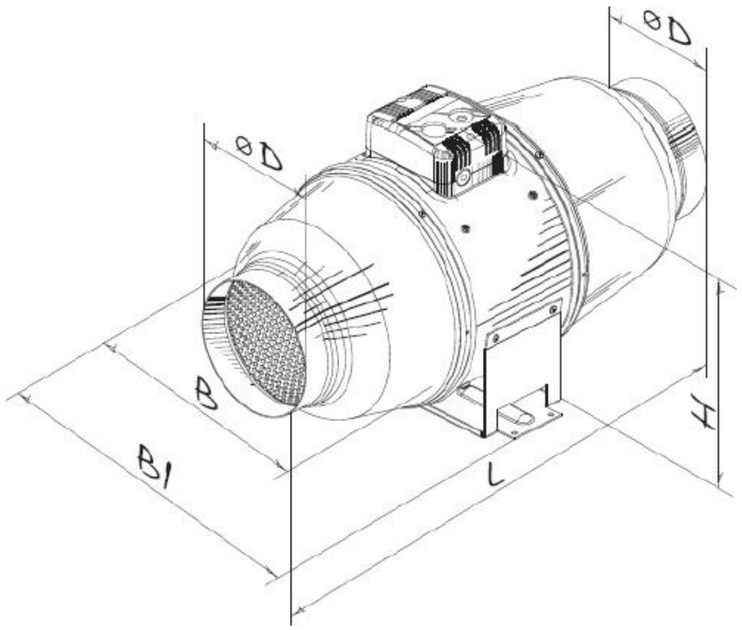
Casing tested according to ISO 3741:2010. Inlet and Outlet tested according to ISO 5136:2003 Acoustics-Determination of sound power radiated into a duct by fans and other air-moving devices – In-duct method. Environment dB(A) @ 3m given as hemispherical.

Technical Specification

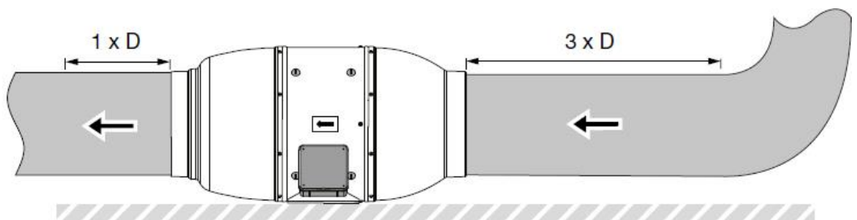
Weight	4.6 Kg
Materials	Internal 50 mm mineral wool thermal and sound-insulating layer External polymer-coated steel
Supply voltage	230 V / single-phase / 50Hz
Maximum power consumption	26 W
Current draw	0.11 A
Fuse rating	3 amp
Max Operating Temp	60°C
IP Rating	IPX4
Mounting	Inline
Access for maintenance hatch	~550 x 250 mm

Dimensions

Height (H)	251 mm
Width (B1)	243 mm
Width (B)	214 mm
Depth (L)	505 mm
Spigot diameter ø (øD)	98 mm



Air Direction/Connection



Arrow on the unit denotes airflow direction.
Ensure bends are 3 x Diameter away from the unit on air entering the unit and 1 x Diameter on air exiting the unit.

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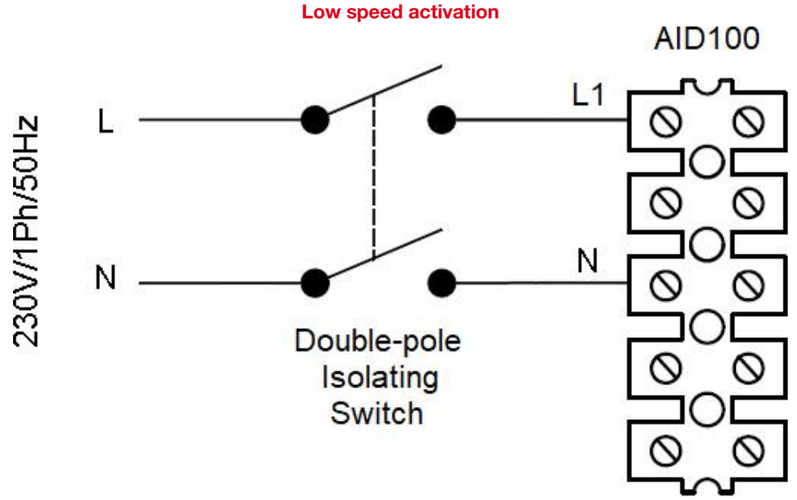
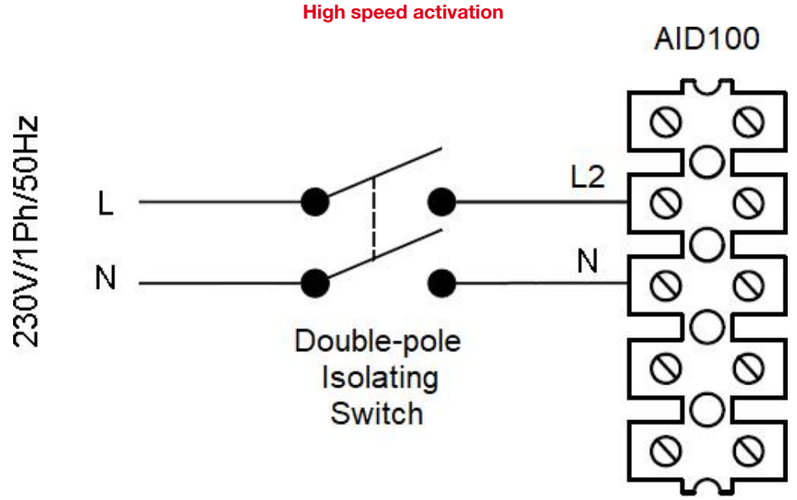
Wiring

Electrical connections should be carried out in accordance to IEE regulations by a qualified electrician. The unit is supplied with a flying lead for connection to the mains supply.

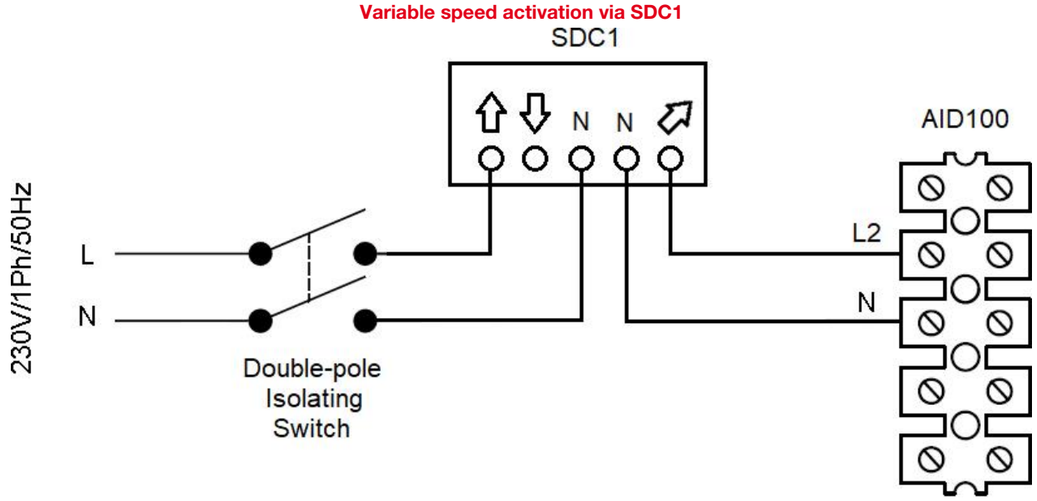
Low speed activation



High speed activation



Variable speed activation via SDC1



Controls

SDC1

Product code: SDC1

The SDC1 is a variable speed controller designed for use with the AID100 or SD fan range.

Key Benefits

- 100% variable motor speed selection in 1 controller

Technical Specification

Mounting options	Surface / Recessed
Supply voltage	Mains power - 230 V / single-phase / 50Hz
IP rating	IP44

Dimensions (recessed)

Height	82 mm
Width	82 mm
Depth	24 mm

Dimensions (surface mounted)

Height	82 mm
Width	82 mm
Depth	65 mm

For use with

Our range of acoustic trickle vents

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Consultant Specification

Specification

The unit shall be acoustically lined to limit noise generation when active. It shall have single-phase motor with low energy demands on the ball bearings. It shall have overheat protection using the built-in thermal switches and be IPX4 rated. The fan shall offer two fixed speeds with an option to be 100% variable using additional controller. It shall have versatile mounting options in any orientation and be for use in a temperatures not exceeding 60°C.

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AID100_Technical_Specification_2022_V2

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