

Zehnder AID100

The Zehnder AID100 is an acoustically lined induct 100mm 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).



SDC1

Key Features

- 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 13m² per fan, large rooms can use multiple fans wired in parallel

Article Numbers

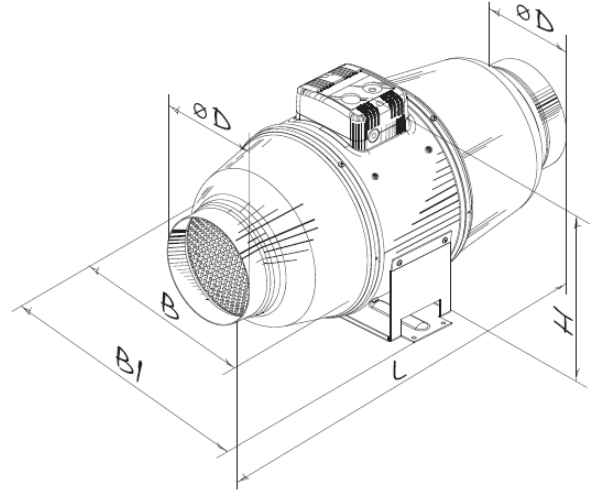
Description	Product Code
Fan	
Acoustic Induct fan, 100mm	AID100
Controller	
Superduct controller, 1.5 amp	SDC1
Ancillaries - Rigid round ductwork	
GD round ducting, GD4 pipe, ø 100mm x 1.5m	GD413
GD round ducting, GD4 90° bend	GD424
GD round ducting, GD4 45° bend	GD426
GD round ducting, GD4 T-piece	GD430
GD round ducting, GD4 mounting clip	GD431
GD round ducting, GD4 connector with back draught shutter	GD432
GD round ducting, GD4 ø 100mm pipe connector	GF4C
Ancillaries - Flexible ductwork	
Flexiduct ø 100mm, aluminium, 10m pipe	GFA4.10
Insulated Flexiduct ø 100mm, aluminium, 10m pipe	GFA4.10I
Flexiduct ø 100mm, aluminium, 3m pipe	GFA4.3
Insulated Flexiduct ø 100mm, aluminium, 4m pipe	GFA4.4I
Fixing worm drive clip, ø 180mm	FC180
Ancillaries - Attenuator / Louvres	
External terminal, square louvred vent, ø 100mm connector, brown	GG42B
External terminal, square louvred vent, ø 100mm connector, white	GG42W
Extract/supply ceiling valve, ø 100mm, white	GG47W
Roof terminal with universal stepped adaptor, connects ø 100, 110, 125, 150 and 160mm pipe, black	RTUB41
Acoustic wall ventilator, brown external grille	AWV39B
Acoustic wall ventilator, white external grille	AWV39W
Attenuator, ø 100mm, length 600mm, galvanised steel	CA100600
Acoustic duct, flexible, aluminium, ø 100mm, 10m	TS400100

Technical Specification

Weight	4.6 Kg
Ducting \varnothing	100 mm
Materials	Internal 50 mm mineral wool thermal- and sound-insulating layer External polymer-coated steel
Supply voltage	230V / single-phase / 50Hz
Maximum power consumption	26W
Current draw	0.11A
Fuse rating	3 amp
Max Operating Temp	60 °C
IP Rating	IPX4

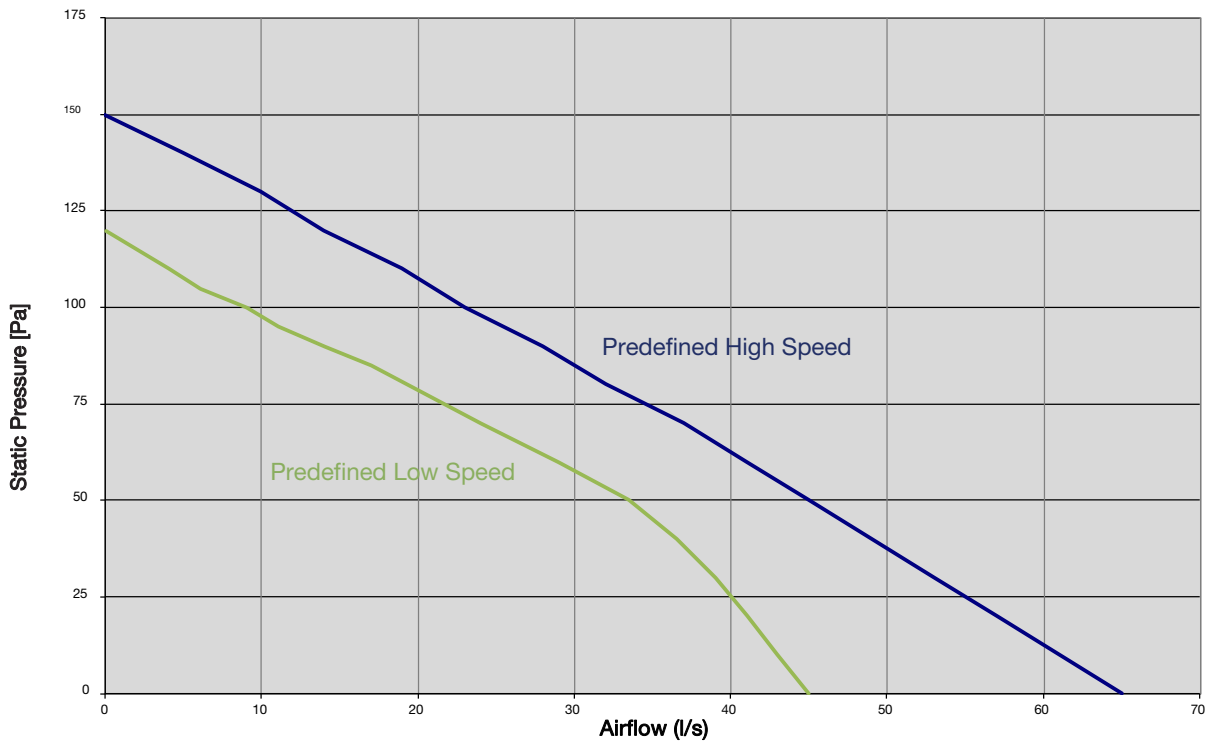
Dimensions

$\varnothing D$	98 mm
B	214 mm
B1	243 mm
L	505 mm
H	251 mm



Access for maintenance hatch circa 550x250mm

Pressure Curve

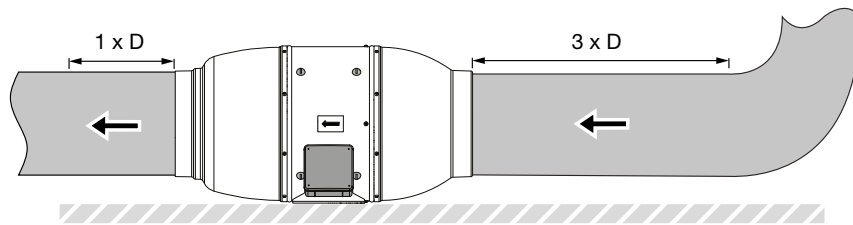


Sound Data

Speed	Test area	Octave Band (Hz) Sound Power Level, dB								dB(A) @ 3m
		63	125	250	500	1000	2000	4000	8000	
Max	Inlet	19	18	29	35	39	39	31	24	
	Outlet	20	19	30	38	42	35	35	23	
	Environment	15	14	17	25	29	21	22	14	13.73

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.

Air Direction/Connection



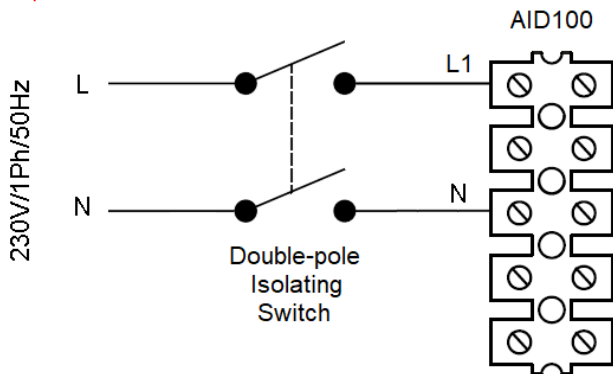
Arrow on the unit denotes airflow direction.

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

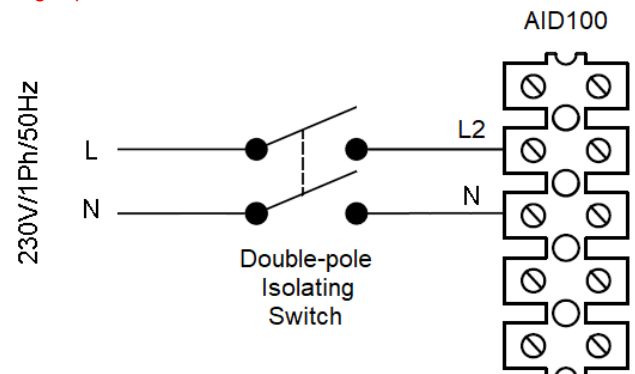
Wiring

Electrical connections should be carried out in accordance to IEE regulations by a qualified electrician. If using multiple units these can be wired in parallel.

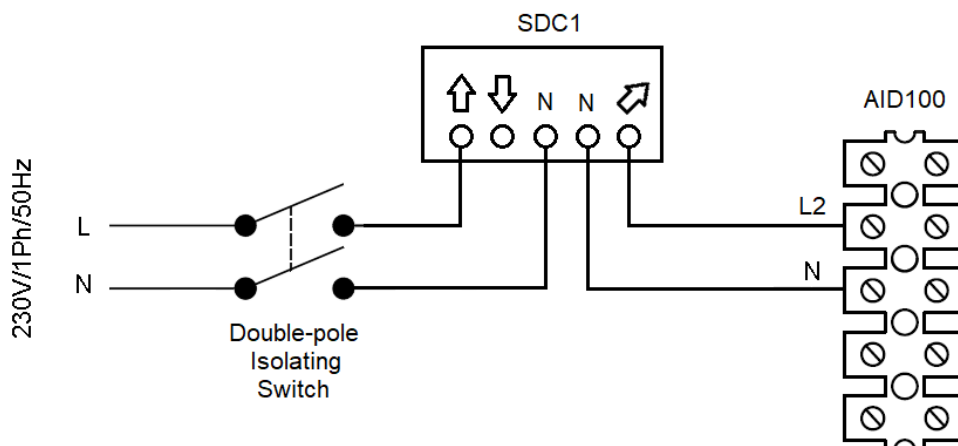
Low speed activation



High speed activation



Variable speed activation via SDC1



For use with

Our range of acoustic trickle vents



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Controls

SDC1



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

Key Benefits

- 4 separate ventilation flow rate options to select in 1 controller

Technical Specification

Mounting options	Supply	Recessed / Surface
voltage	Mains power - 230V / single-phase / 50Hz	
IP rating	IP44 / IP54	

Dimensions (recessed)

Height	89mm
Width	82mm
Depth	24mm

Dimensions (surface mounted)

Height	82mm
Width	82mm
Depth	65mm

Description

Suitable for use with units:

Acoustic Induct fan, 100mm Superduct	AID100
centrifugal induct fan, ø 100mm Superduct	SD100
centrifugal induct fan, ø 150mm Superduct	SD150
centrifugal induct fan, ø 200mm	SD200

Product Code

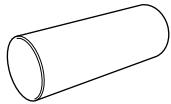
Article

SDC1

Ancillaries

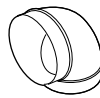
Ancillaries - Rigid round ductwork

GD413



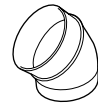
GD round ducting, GD4 pipe, ø 100mm x 1.5m

GD424



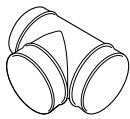
GD round ducting, GD4 90° bend

GD426



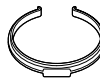
GD round ducting, GD4 45° bend

GD430



GD round ducting, GD4 T-piece

GD431



GD round ducting, GD4 mounting clip

GD432



GD round ducting, GD4 connector with back draught shutter

GF4C



GD round ducting, GD4 ø 100mm pipe connector

Ancillaries - Flexible ductwork

GFA4.10



Flexiduct ø 100mm, aluminium, 10m pipe

GFA4.10I



Insulated Flexiduct ø 100mm, aluminium, 10m pipe

GFA4.3



Flexiduct ø 100mm, aluminium, 3m pipe

GFA4.4I



Insulated Flexiduct ø 100mm, aluminium, 4m pipe

FC180



Fixing worm drive clip, ø 180mm

Ancillaries - Attenuator / Louvres

GG42B



External terminal, square louvred vent, ø 100mm connector, brown

GG42W



External terminal, square louvred vent, ø 100mm connector, white

GG47W



Extract/supply ceiling valve, ø 100mm, white

AWV39B



Acoustic wall ventilator, brown external grille

AWV39W



Acoustic wall ventilator, white external grille

CA100600



Attenuator, ø 100mm, length 600mm, galvanised steel

TS400100



Acoustic duct, flexible, aluminium, ø 100mm, 10m

RTUB41



Roof terminal with universal stepped adaptor, connects ø 100, 110, 125, 150 and 160mm pipe, black

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.