

Slimpak® (SLP)

In-Line Centrifugal Duct Fans



Features & Benefits

- Ultra slim and compact
- Acoustically treated 'O' class rated
- 'Eco Flow' computer modelled design
- Latest external rotor motor
- Fully speed controllable
- Matching ancillaries

The Slimpak in-line acoustic fans shall be as supplied from Roof Units. Manufactured from prime quality galvanised sheet steel, ensuring a robust in-line fan for those tough site conditions. Slimpak shall be internally treated with an 'O' class rated acoustic foam, which offers the benefits of excellent low level duct bound and breakout sound levels, in addition self extinguishing properties, zero burn role, resistant to ignition, and no toxic fumes.

Slimpak fans are to be suitable for circular ducting ranging in sizes 100, 125, 150, 200, 250 and 315mm with air volumes from 0.075m³/s to 0.380m³/s and pressure development of up to 550Pa.

The casing shall be specially designed to allow the unit to be mounted quickly and easily. All manufacturing progressed of the Slimpak fan units are computer designed and controlled to BS EN ISO 9001 Standards.

Impellers

The backward curved centrifugal impellers shall be aerodynamically designed, utilising computer technology combining the impeller with the external rotor motor. The motor and impeller shall be factory matched, statically and dynamically balanced on precision machines, to DIN ISO 1940 Grade 6.3, to give quiet, vibration free running. The aerodynamic blades and motor housing shall be manufactured from prime quality galvanised sheet steel.

Motors

All sizes from 100 to 315 shall be protected to IP44 in accordance with BS EN 60529:1992. With motor insulation Class B, suitable for operating temperatures from -15°C and atmospheres up to 95% RH. The range shall incorporate maintenance free external rotor motors, fitted with sealed for life ball bearings.

All sizes are ideally suitable for speed control by electronic or voltage reduction. Vent-Axia would recommend that a voltage reduction Auto Transformer speed controller is used with all Slimpak units to ensure minimum noise levels during speed control and to eliminate any possibility of harmonic noise levels which occur when using electronic speed controllers at lower levels.

Terminal Box

An IP54 terminal box shall be supplied with all models with 20mm cable gland entry, ensuring suitability for external use.

Performance

The fan performance, shall be in accordance with tests to BS848 Part 1 1980, with the fan sound levels, measured in a reverberant chamber in accordance with BS848 Part 2 1985.

Quality Assurance

Design and manufacture shall be in accordance with the standard for quality management systems BS EN ISO 9001:1994.

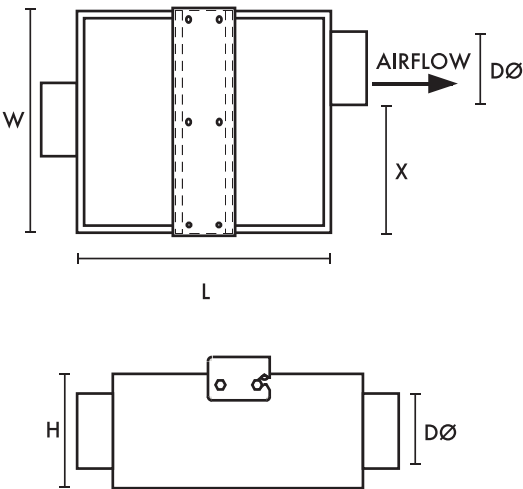
Accessories

A full range of accessories are available with the Slimpak range of fans such as:

- Auto Transformer Speed Controllers
- Electronic Speed Controllers
- D.O.L. Starters
- Pre & Secondary Filter Cassettes
- Electric Heater Batteries
- Backdraught Shutters
- In-Line Attenuators
- Wall & Roof Terminals
- Fast Clamps



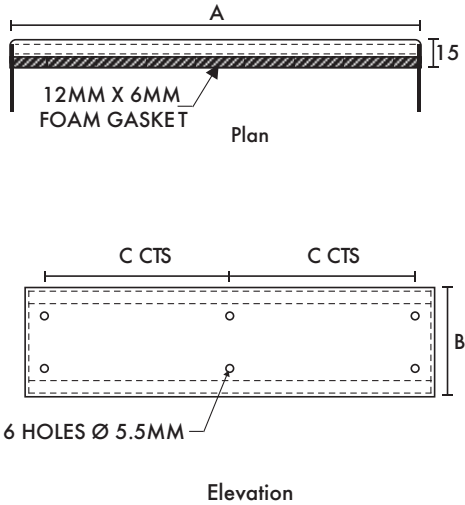
Dimensions (mm)



Elevation

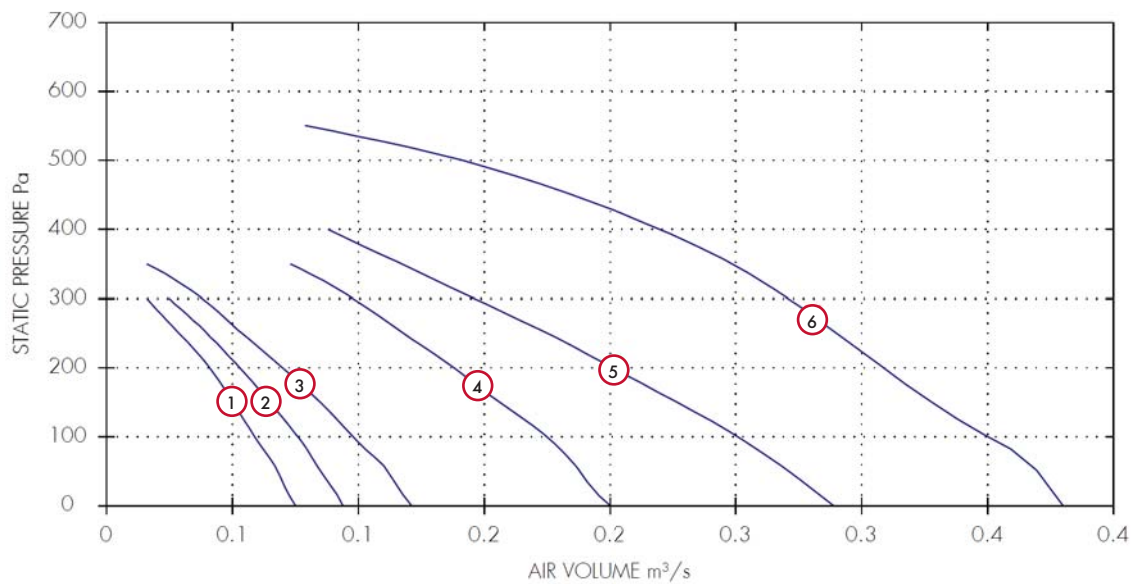
Fan Stock Ref	L	W	H	DØ	X	Weight kg
SLP100	360	306	160	100	178	8
SLP125	360	306	160	125	165	8
SLP150	360	306	180	150	140	9
SLP200	415	360	285	200	140	13
SLP250	415	360	285	250	90	15
SLP315	450	400	350	315	65	17

Mounting bracket (mm)



Fan Stock Ref	A	B	C
SLP100	306	80	138
SLP125	306	80	138
SLP150	306	80	138
SLP200	360	130	165
SLP250	360	130	165
SLP315	400	180	184.5

Performance Curve



Performance Guide

Fan			Curve Ref	Duty m³/s @ Pa													Amps		
Stock Ref	RPM	Phase		0	25	50	100	150	200	250	300	350	400	450	500	550	kW	FLC	SC
SLP100	2450	1	1	0.075	0.071	0.068	0.059	0.051	0.041	0.029	0.016	-	-	-	-	-	0.058	0.26	1.04
SLP125	2450	1	2	0.094	0.090	0.086	0.076	0.065	0.053	0.040	0.025	-	-	-	-	-	0.058	0.26	1.04
SLP150	2450	1	3	0.121	0.116	0.112	0.098	0.085	0.070	0.054	0.038	0.016	-	-	-	-	0.058	0.26	1.04
SLP200	2700	1	4	0.200	0.193	0.188	0.175	0.156	0.138	0.118	0.098	0.073	-	-	-	-	0.12	0.48	1.92
SLP250	2400	1	5	0.289	0.280	0.271	0.251	0.227	0.201	0.175	0.146	0.117	0.088	0.053	-	-	0.13	0.65	3.0
SLP315	2550	1	6	0.380	0.342	0.370	0.350	0.328	0.309	0.290	0.271	0.248	0.220	0.185	0.141	0.079	0.23	1.02	5.0

FLC = Full Load Current SC = Starting Current

Models & Accessories

Fan Stock Ref	Speed Controller				
	Electronic Stock Ref	Auto Transfor. Stock Ref	Starter Stock Ref	Overload Stock Ref	Electric Heaters Stock Ref
SLP100	SP5001	SPM5020	444744	444699	10531100T1
SLP125	SP5001	SPM5020	444744	444699	10531125T1
SLP150	SP5001	SPM5020	444744	444699	10531150T1
SLP200	SP5001	SPM5020	444744	444699	10531200T1
SLP250	SP5001	SPM5020	444744	444700	10531250T1
SLP315	SP5001	SPM5020	444744	444702	10531315T1

Fan Stock Ref	Attenuators		
	Inlet Stock Ref	Discharge Stock Ref	Wall Terminal Stock Ref
SLP100	SLSI100/1	SLSD100/1	SA100/280
SLP125	SLSI125/1	SLSD125/1	SA125/280
SLP150	SLSI150/1	SLSD150/1	SA150/280
SLP200	SLSI200/1	SLSD200/1	SA200/280
SLP250	SLSI250/1	SLSD250/1	SA250/280
SLP315	SLSI315/1	SLSD315/1	SA315/280

Fan Stock Ref	Roof Terminal Stock Ref	Louvre Shutter Stock Ref	Flexible Connections Stock Ref	Panel Filters Stock Ref	Spare Panel Filters Stock Ref	Back Draught Shutters Stock Ref
SLP100	WRC100	LS250	FLX100	SLPF100	FILTERSSLP100	BDS100
SLP125	WB160C	LS250	FLX125	SLPF125	-	BDS125
SLP150	WB160C	LS315	FLX150	SLPF150	FILTERSSLP150	BDS150
SLP200	WB200C	LS315	FLX200	SLPF200	FILTERSSLP200	BDS200
SLP250	WB200C	LS315	FLX250	SLPF250	FILTERSSLP250	BDS250
SLP315	RCZ300	LS400	FLX315	SLPF315	FILTERSSLP315	BDS315