

FIXED BLADED SWIRL - SWB

DESCRIPTION & FEATURES

Circular & Square Fixed Swirl Diffusers (SWB) are suitable for Supply of Cool & Warm Air with a large temperature differential, making these units ideal for Fan Coil Units, VAV and VRF Systems. Also suitable for Extract/Return Air applications.



SWB diffusers are manufactured from Galvanised Steel.

Standard finish is RAL9010 or polyester powder coated to the customers colour requirement.

PLENUM BOXES

Plenum boxes are accessories for use with Grilles and Diffusers. They are designed to equalise the pressure profile within the box and hence provide an even velocity at the face of the Grille or Diffuser without the use of Equalising Grids.

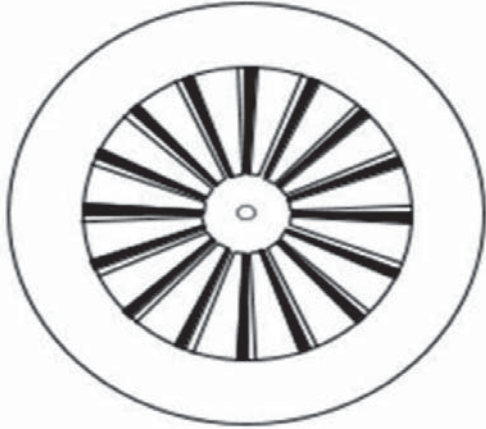
SWB ORDERING CODE (DIFFUSER)	
Series	SWB
Const	C - Circular Face S - Square Face
Ceiling	M - Modular (595 ² tile) T - Tegular (see data sheet) B - Clip in tile (599 ²) 0 - Not applicable (circular units)
Fixing	F8 - Crossbar Plenum Fixing F9 - Crossbar Plasterboard Fixing (loose)
Finish	1 - (Mill Finish) 2 - RAL9006 (Silver/Grey) 3 - RAL9010 (White) 4 - RAL9005 (Black) 5 - RAL9003 (White) 6 - RAL9016 (White), 7 - Other RAL/BS Code (additional costs may apply) 8 - Chrome Finish - Powder Coated
Example: SWC/C/S/F8/3/Model Size	

SWB ORDERING CODE (PLENUM)	
Type	PBU - Un-Lined Side PBL - Lined Side
Series	SWB
Mesh	P - Perforated Equalising Mesh 0 - No Equalising Mesh
Damper	LS - Lever Spigot Damper CS - Cord Spigot Damper 0 - No Damper
Spigot	OP - 2 Opposite Spigots AD - 2 Adjacent Spigots FL - Flat Oval Spigot
Finish	IN - Black Internal EX - Black External IE - Black Internal & External
Example: PBL/SWB/0/0/Model Size/Spigot Size	

SWB

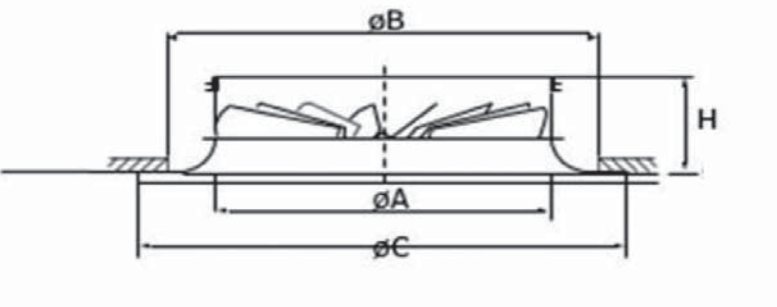
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SWB DIMENSIONS (DIFFUSER)

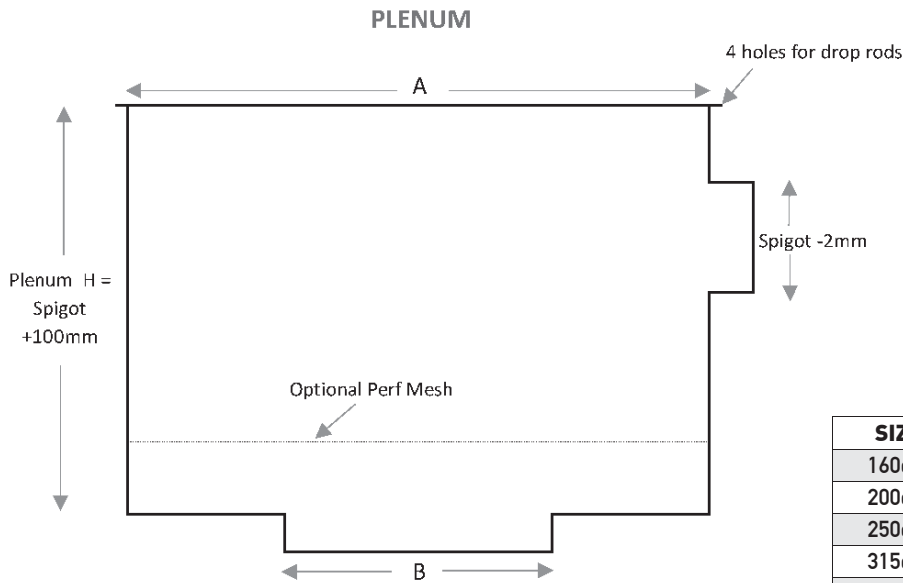


SIZE	A	B	C	H
160dia	160dia	220dia	310dia	81mm
200dia	200dia	270dia	350dia	81mm
250dia	250dia	320dia	400dia	81mm
300dia	300dia	370dia	450dia	81mm
315dia	315dia	385dia	465dia	81mm
400dia	400dia	470dia	550dia	81mm
450dia	450dia	520dia	600dia	81mm

SWB



PLENUM BOX DIMENSIONS



SIZE	A	B
160dia	220x220	162dia
200dia	260x260	202dia
250dia	310x310	252dia
315dia	375x375	317dia
400dia	460x460	402dia

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SWB PERFORMANCE DATA

AIR VOL (l/s)	SIZE	DIFFUSER c/w SUPPLY SIDE ENTRY PLENUM			EXTRACT	
		P.DROP	NOISE	THROW	DIFFUSER + PLENUM	
		(Pa)	(NR)	(m)	Pa	NR
20	160dia	12	/	0.4	13	/
30	160dia	26	26	0.6	29	29
	200dia	11	/	0.6	12	/
40	160dia	35	31	1.0	39	34
	200dia	19	22	0.9	21	25
	250dia	6	/	0.6	7	/
50	200dia	28	29	1.3	31	32
	250dia	10	/	1.0	11	/
	315dia	6	/	0.8	7	/
60	200dia	38	34	1.5	42	37
	250dia	14	20	1.3	15	23
	315dia	9	/	1.0	10	/
70	200dia	50	38	1.8	55	41
	250dia	19	23	1.4	21	26
	315dia	11	/	1.2	12	/
80	250dia	24	26	1.6	26	29
	315dia	14	20	1.3	15	23
90	250dia	30	30	1.8	33	33
	315dia	17	24	1.4	19	27
100	250dia	36	33	2.1	40	36
	315dia	21	27	1.6	23	30
	400dia	4	/	1.0	4	/
120	250dia	50	39	2.3	55	42
	315dia	31	32	1.9	34	35
	400dia	6	/	1.2	7	/
140	315dia	41	37	2.2	45	40
	400dia	8	/	1.3	9	/
160	315dia	51	40	2.4	56	43
	400dia	10	/	1.7	11	/
180	400dia	14	20	2.2	15	23
200	400dia	16	24	2.4	18	27
225	400dia	21	27	2.6	23	30
250	400dia	21	27	3.0	23	30
275	400dia	30	32	3.4	33	35
300	400dia	36	35	3.6	40	38

SWB

Throw data (metres) is based on a Terminal Velocity of 0.5m/s to give an average room air movement of 0.25m/s when fitted within a 2.7m high ceiling.

Sound Power Levels (NR) and Pressure Drops (Pa) applies to a fully opened Damper. The assumed room absorption is between 8dB.

Selection and tests are based on a 10°C cooling differential. For isothermal or 10°C heating conditions, reduce throws by approximately 15%

/ indicates a value of less than 20.

Notes

SWB