

Air Diffusion

Plenum Boxes Sheet Metal

Material

Standard is a minimum of 0.7mm thick galvanised or zinc coated steel.

Construction

Plenum boxes are generally fabricated with flush ends, which are either mechanically joined or spot welded to form an airtight seal. As standard, spigots boxes are supplied with plain edges, as standard, (F0 fixing).

Finish

Self finish galvanised or zinc coated steel as standard.

Standard Model Types

PBS – 1 Standard unlined plenum box with 1 number centrally located circular side entry spigot having no damper or equalising grid.

Selection Guide

Pressure Drop and Sound Ratings

The pressure drop given is for supply diffuser with damper fully open. When the diffuser is installed with plenum box, the pressure loss of the box has to be added to the diffuser.

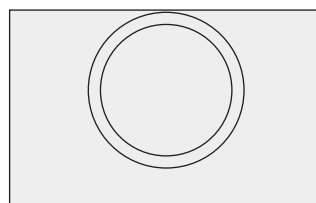
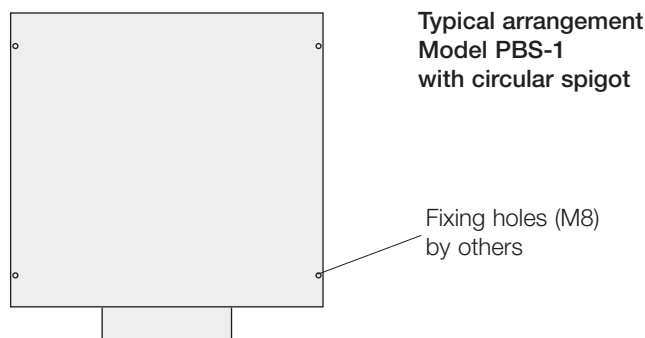
Spigot Velocity m/s	1.5	2.0	2.5	3.0	3.5	4.0
Pressure Drop Pa*	2	4	6	8	12	16
Sound Level NR*	-	-	25	30	35	40

* The figures given are approximate - dependent upon spigot entry conditions.

Plenum Box Spigot Volumes

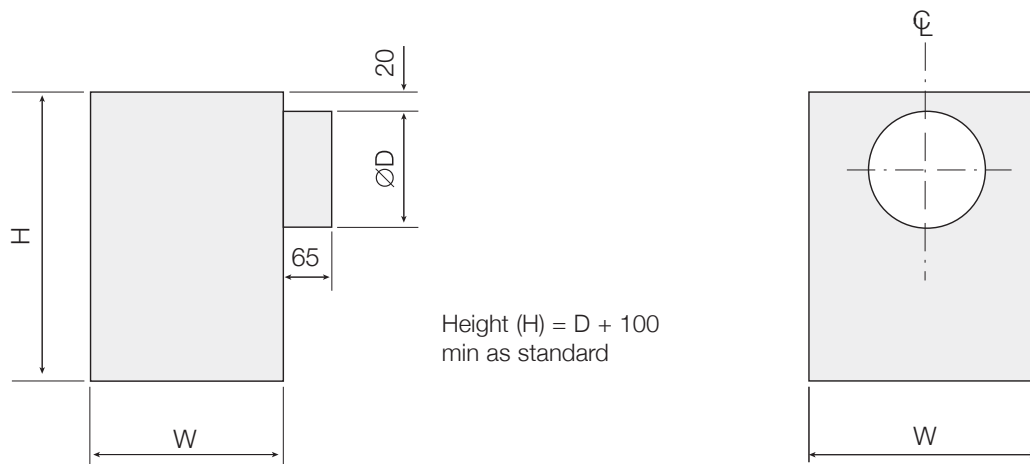
Diameter (mm)	Spigot velocity m/s					
	1.5	2.0	2.5	3.0	3.5	4.0
100	10	15	19	22	26	30
200	45	60	75	91	109	121
250	71	95	120	142	170	191

Air volumes in l/s.



Dimensions

Type PBS-1 Circular Spigot



N.B. Standard spigot sizes are 100 dia, 200 dia and 250 dia.

Ordering Information

Example

Model	Internal Lining	Spigot Damper	Options	Dimensions
PBS-1	U	N	0	
Sheet Metal				
PBS-1 - Plenum box to suit square diffuser / grille with circular side entry spigot.	U - Standard Unlined Plenum Box.	N - Plain spigot no damper.	0 - No options.	See example below

Dimensions PBS - 1

Example

Neck Size	Plenum Height	Circular Spigot Diameter	Centre Line of Spigot
L x W	H	ØD	G
450 x 450	350	250	0

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Air Diffusion

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