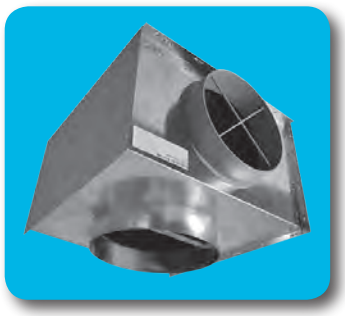
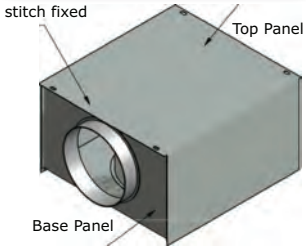
Plenum Box to suit SDF Fixed Blade Swirl Diffusers

WTP





Introduction

Plenum boxes for our SDF swirl diffusers are designed to guarantee a good mixing of the air prior to diffusion through the terminals. Available with Side or Top Entry connections to customer-specific diameters, these can be fitted with Spigot Flap Dampers, cord- / quadrant-operated, as well as 6mm acoustic lining (optional) reaction to fire class C-s3-d0 to EN 13501-1: 2007 to avoid noise generation. The Supply air plenum box includes an internal baffle plate to evenly distribute the airflow over the swirl area.

Product Description

WTP Plenum box to suit SDF Fixed Blade Swirl Diffusers
SE Side Entry spigot
TE Top Entry spigot
FDC Cord-operated Flap Damper (optional)
FDQ Quadrant-operated Flap Damper (optional)
LINED 6mm acoustic lining (optional) reaction to fire class C-s3-d0 to EN 13501-1: 2007
BLACK Plenum painted black to prevent through vision (optional)

Features

- Galvnised steel, stitch fixed
- Side Entry spigot with optional airflow control damper
- Oblong holes on top plate for easy drop rod installation
- Internal baffle plate for Supply air diffuser

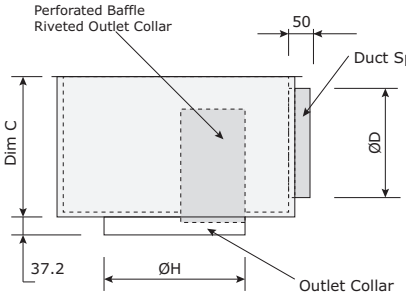
Finish

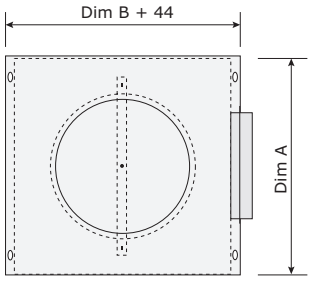
WTP Galvanised sheet steel

Order Example

WTP-200/SE/1GC/197dia/FDC/Lined,19mm/BFL

Type
Size
Spigot position
Spigot type
Spigot size
Spigot damper
Acoustic lining
Baffle





Dimensions

Nominal Collar Size	Where Used	Plenum Length 'A'	Plenum Width 'B'	Plenum Height 'C'	Spigot Size ØD	Outlet Collar ØE	Baffle Height 'F'	Baffle Length 'G'	Duct Collar ØH	Baffle Radius 'R'	Mounting Bar Hole Ctrs 'J'	Mounting Bar Length 'K'
Ø125	SDF Series	300	300	160	100	125	100	175	123	62	185	225
Ø160	SDF Series	300	300	185	125	160	140	230	158	80	220	260
Ø200	SDF Series	400	400	220	160	200	165	285	198	100	260	300
Ø250	SDF & SDT Series	400	400	260	200	250	205	365	248	125	310	350
Ø315	SDF Series	500	500	310	250	315	245	465	313	157	375	415
Ø350	SDT Series	500	500	310	250	345	245	514	343	172	375	395
Ø400	SDF Series	560	560	375	315	400	310	600	398	200	460	500
Ø450	SDT Series	560	560	375	315	445	310	664	443	222	500	545
Ø550	SDT Series	650	650	375	315	545	310	814	543	272	600	645

Note: The connection between the diffuser and plenum is adequately sealed for most installations, although secondary additional sealing may be required at the discretion of the installers, if the leakage rate required is particularly low.

Plenum Box to suit SDCH Swirl Diffusers

SDP

Introduction

Plenum boxes for our SDCH swirl diffusers are designed to guarantee a good mixing of the air prior to diffusion through the terminals. Available with Side Entry connections matching the diffuser neck (nominal size), these can be fitted with Spigot Flap Dampers, cord- / quadrant-operated, as well as 6mm acoustic lining (optional) reaction to fire class C-s3-d0 to EN 13501-1: 2007 to avoid noise generation. The Supply air plenum box includes an internal baffle plate to evenly distribute the airflow over the swirl area.

Product Description

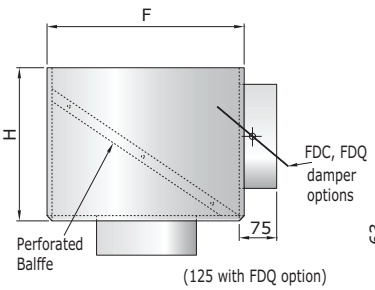
SDP Side Entry plenum box to suit SDCH Diffusers
FDC Cord-operated Flap Damper (optional)
FDQ Quadrant-operated Flap Damper (optional)
LINED 6mm acoustic lining (optional) reaction to fire class C-s3-d0 to EN 13501-1: 2007
BLACK Plenum painted black to prevent through vision (optional)

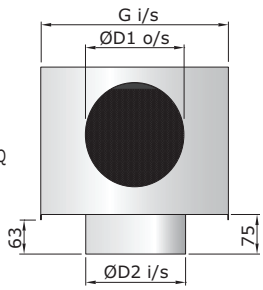
Features

- Galvnised steel, stitch fixed
- Side entry spigot with optional airflow control damper
- Oblong holes on top plate for easy drop rod installation
- Internal baffle plate for Supply air diffuser

Finish

SDP Galvanised sheet steel





* Please note the total installed height assumes an overlap of 30mm on the neck / plenum connection.

Order Example

SDP/315/247dia/SE/FDC/Lined

Type
Diffuser size
Spigot size
Entry
Option
Option

Nom Size	F	G	H	ØD1	ØD2
200	395	375	290	197	200
250	445	425	340	247	250
315	520	500	405	312	315
400	595	575	490	397	400
500	695	675	590	497	500
630	820	800	720	627	630