

ideal  
diffusers

# Adjustable Blade Swirl Diffusers

FSWA Series

## Product Overview

Series FSWA swirl diffusers are designed supply air applications having fully adjustable air pattern blades whilst maintaining the air distribution benefits of a swirl diffuser. The adjustable blades offer the flexibility required to overcome problems with the supply of warm and cool air into a modern office application.

## Construction

Manufactured from pressed sheet steel with black plastic adjustable airflow vanes.

## Size Range

All models are 595mm x 595mm overall for lay-in ceiling tile replacement. 3 models 12, 24 or 36 adjustable slot are available to suit performance requirements. Preferred sizes for the FSWA series are available for next working day. Please enquire for details.



## Fixing

**L** - Lay-in tile replacer\*

**CS** - Central diffuser screw (fixed through the diffuser face into a secondary bracket).

\*595mm x 595mm overall across flange (flange for surface mounting).

## Finish

**PPC RAL9010** - 20% gloss White (Standard)

## Accessories

Please specify the accessories on your order.

Plenum boxes

Balancing damper (Plenum Spigot Mounted)

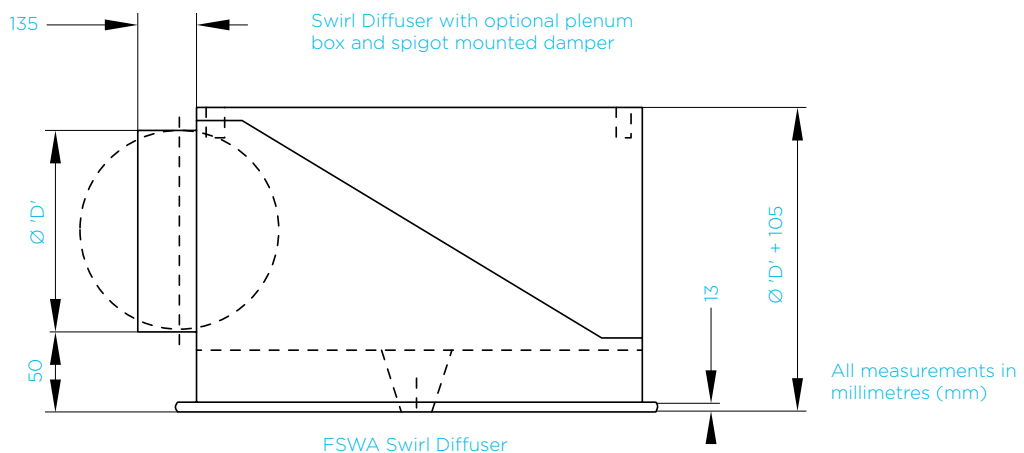
## Available Models



12

24

36



# Adjustable Blade Swirl Diffusers

## Performance Data

All data based on:

\*A ceiling height of 2.7m and at isothermal conditions

		NR $L_p$ and Static Pressure $P_s$ correction factors for grilles with an open damper					
No. Swirl Slots	Neck Velocity m/s	1.5	2.0	2.5	3.0	4.0	5.0
12	Airflow (l/s)	40	53	66	79	106	132
	Pressure Drop (Pa)	5	9	13	19	34	54
	Noise Criteria (NC)	<15	<15	15	20	28	38
	Throw (m)	1.0 - 1.9	1.3 - 2.2	1.4 - 2.5	1.5 - 2.7	1.8 - 3.2	2.0 - 3.4
24	Airflow (l/s)	79	106	132	158	211	264
	Pressure Drop (Pa)	4	8	12	18	31	49
	Noise Criteria (NC)	<15	19	25	31	36	44
	Throw (m)	1.4 - 2.5	1.7 - 2.8	1.9 - 3.1	2.1 - 3.4	2.3 - 3.8	2.6 - 4.3
36	Airflow (l/s)	119	158	198	238	317	396
	Pressure Drop (Pa)	7	12	19	27	49	76
	Noise Criteria (NC)	<15	20	28	34	42	54
	Throw (m)	1.9 - 2.9	2.6 - 4.1	2.8 - 4.3	3.0 - 4.6	3.4 - 5.1	3.8 - 5.6

## Placing an order

Example Product Code						
FSWA	36	595	595	AF	L	RAL9010

Terminal Velocity m/s	0.5	0.4	0.25
Throw Multiplier	0.8	1	1.5

Series	Slots	Size mm		Dimensional Selection	Fixing	Finish				
		Width	Height							
FSWA	Diffuser only	12	595	595	AF	Across flange size of the diffuser	L	Lay-in tile replacement (450 x 450 only)	RAL9010	PPC RAL9010 (20% gloss) White
	24									
	36									
							CS	Central diffuser screw		

When ordering please state requirement from each column: Series, Slots, Size, Dimensional Selection, Fixing & Finish.