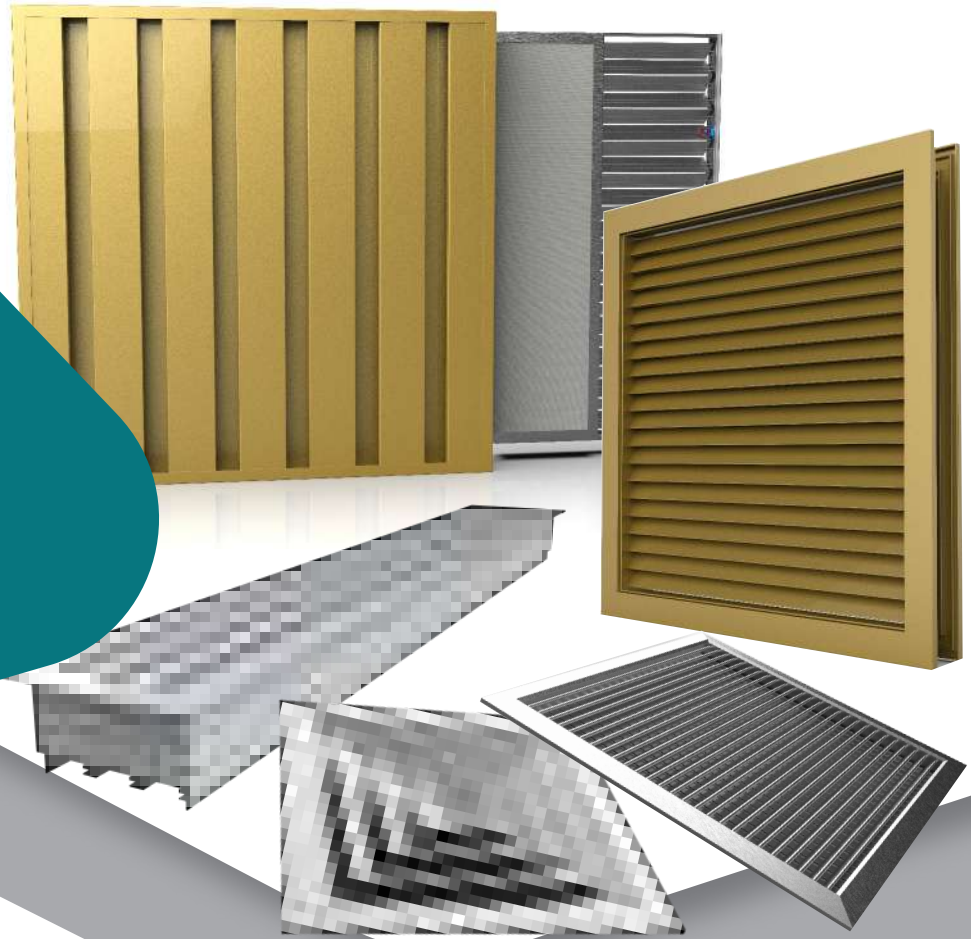




CASTLE
ENGINEERING
INDUSTRIES



AIR OUTLETS

AIR OUTLETS

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Swirl Diffuser

Chapter 15

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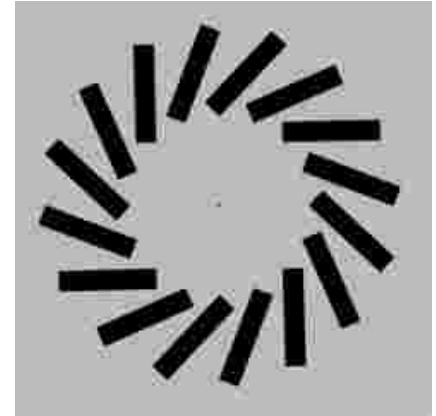
- **Model: S W D 1 6 / 2 4 / 4 8**
- **Features & Characteristics**
- **Operating Rang & Quick Selection Table**

Castle Door Transfer Grilles of Model: S W D 1 6 / 2 4 / 4 8

The swirl Diffuser with manual adjustment deflectors has been especially developed to enable the direction of air discharge to be altered on site to cater for any changes in room layout or partitions. Due to the rotary swirling motion of the air discharge, induction of room air occurs very quickly resulting in a rapid decay of supply air velocity & temperature difference so that a large number of air changes (up to 30 per hour) can be obtained with temperature difference between + 10 c° & - 10 c°.

Features & Characteristics:

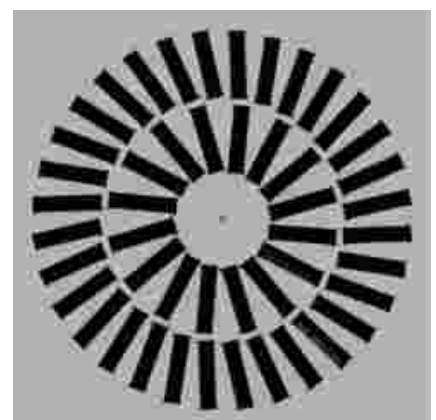
- Face plate (panel) made of high-quality steel sheet finished in white powder coating in standard size 595*595 mm outer dimensions.
- Ready to fit in standard 600*600 mm false ceiling tile.
- The control deflectors are made from plastic (ABS) in black colour as standard.
- Each deflector is singularly adjustable & fit in place to give the final geometry.
- The pivoting deflectors can be set in different positions in order to vary the direction of discharged air. By turning all deflectors in the same direction (set @45°), the air flow will discharge in the form of centrifugal swirl motion, in this case this diffuser will be suitable for all applications which require high induction for heating & cooling.
- Available in three different options of number of deflectors giving different quantity of air flow, thus 16, 24 & 48 deflectors.



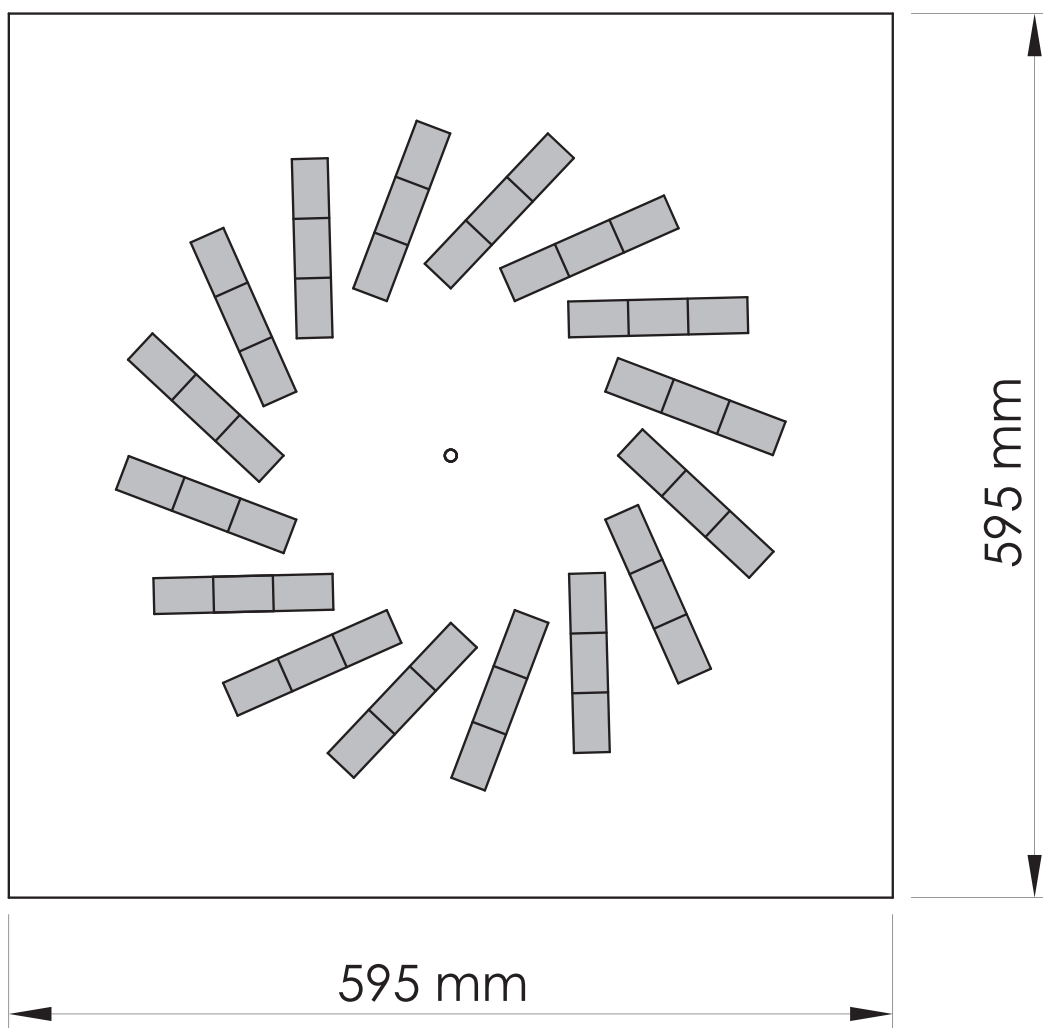
SWD 16



SWD 24



SWD 48



Operating Rang & Quick Selection Table

Model	Outer Size (mm)	Number of Deflectors	A _{eff.} (m ²)	CFM Range	Throw @V _t =0.25m/s (m)	Pressure drop P (Pa)	Noise level (dBA)
SWD 16	595 x 595	16	0.022	90 - 320	<1 - 6.1	6 - 71	<20 - 54
SWD 24	595 x 595	24	0.032	90 - 320	<1 - 7.3	6 - 72	<20 - 51
SWD 48	595 x 595	48	0.043	90 - 320	<1 - 6.4	6 - 62	<20 - 54

[illegible]



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