

Swirl Diffusers

B-40series

Type: Swirl Round Diffusers

Model: SWRD-AB-42

Construction: Aluminium

BETEC CAD. Swirl air diffuser makes air stream flow in the direction adapted to the building's layout by regulating the blades in different directions. The air stream blows swirly in one or two directions to ensure high induction rate, high wind speed and the rapid drop in air temperature.

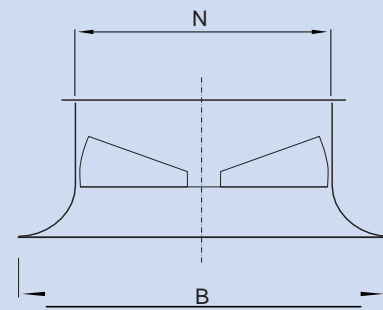
Blades are designed based on the principles of fluid dynamics, the blades make air to form a vortex flow with certain nozzle velocity while sending it outdoors, and the velocity will make bigger delivery range and enhance the air convection. The blades can change air supply angle, sending rotating airflow in horizontal, diagonal and vertical direction according to different operating conditions.

The round swirl diffuser is widely used in big space which higher than 3.8m, such as airports, stations, waiting halls, theaters, stadiums, industrial plants, commercial business offices, large conference rooms, reception halls, shopping malls, shared space in shopping malls and etc.

Swirl Diffuser is an air distribution outlet specially designed for commercial air conditioning use. it is commonly seen in the theater, airport, and the exhibition hall. The swirl diffuser spreads out air in a spiral pattern. With adjustable blades, users can easily control the air flow direction via adjusting the blade inclination angle.



SWRD-AB-42



B = Face size
N = Neck size

Standard Construction Details

Frame

0.9 mm Aluminium sheet.

Diffusers Blades

Rotatable type.

Finish

Available with RAL powder coating, please specify color.

Optional Construction

Plenum chamber

Plenum are available with circular, square or rectangular spigots in either top or side.

Plenum Casing

0.7 mm thick Galvanized steel sheet.

Insulation

Acoustic liner of 13 mm thickness, 32 kg/m³ density.

Finish

Mill finish

Performance Data

Air flow (M ³ /hr)	350	400	450	500	600	650	700
Sound Power Level (dB A)	32	36	39	42	47	49	51
Static Pressure	2.2	2.8	3.2	3.8	5.5	6.0	6.5
Throw (V ₂ = 0.25 m/s)	1.7	2	2.2	2.6	3.0	3.3	3.6

Specification

Standard Sizes N Dia mm	Air Volume (m ³ /h)
200 Ø	450
250 Ø	750
315 Ø	1500
400 Ø	2500
500 Ø	3000
600 Ø	3500

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.