

Model RSD Swirl Diffuser



Features

- Fixed blades.
- Two possible diffuser shapes
- Different installation possibilities.

Finish

- Press formed aluminium construction.
- Standard finish is baked enamel to standard semi gloss white & RAL9010. Special colour finishes are available to match architectural requirements on requested.

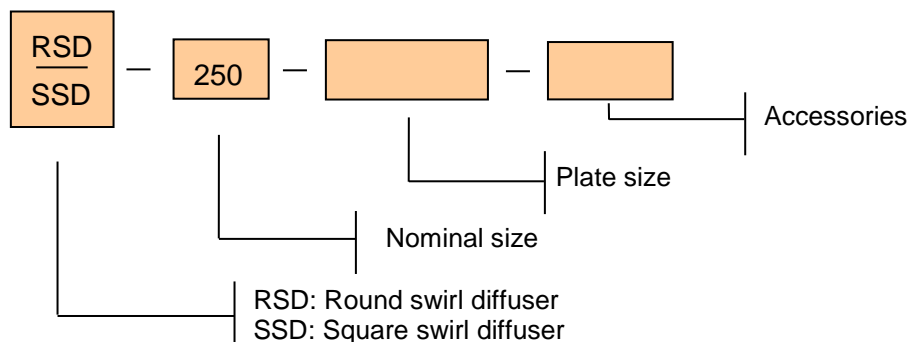
Accessories

- Duct mounting collar
- Air plenum

Model SD swirl diffusers are designed to produce a horizontal, radial air pattern with a turbulent, high induction heat characteristic and are ideally suited for applications with high heating or cooling differentials for comfort as well as industrial air-conditioning.

The diffuser face plates are manufactured from aluminium. The steel duct mounting collar can be used as a means of fixing and supporting the diffuser from rigid ductwork. Side entry plenums are optionally available with spigot mounted quadrant operated flap dampers.

Order Code



Performance Data

Nominal	Air Flow (l/s)	40	50	60	70	80	90	100	120
Dia.	Throw (m)	0.6	1.0	1.3	1.4	1.6	1.8	2.1	2.3
250	Noise (dBA) duct	-	-	-	26	29	23	36	42
	Noise (dBA) plenum	-	-	25	28	31	35	38	44
	Pressure (pa) duct	5	8	11	15	19	24	29	40
	Pressure (pa) plenum	6	10	14	19	24	30	36	50

Selection Criteria

Throw data is expressed in metres and is based on a terminal velocity of 0.5m/s and a 10 degree C cooling differential. For Isothermal conditions apply a factor of 1.15 to the throws. For 10 degree C heating apply a factor of 1.32.

Nose levels are based on sound pressure levels with an assumed 8dB room absorption factor allowed.

Pressure loss data is shown in terms of statics pressure loss (pa) based on a diffuser fitted with a collar, or for a diffuser installed in a plenum.