

# AIRFOIL



GRILLES  
DUCT  
FITTINGS

*making it happen sooner...*



## RADIAL SWIRL DIFFUSER (CDS-DM350)

Airfoil's Radial Swirl Diffuser (CDS-DM 350) has 22 fixed vanes. It has the ability to handle lower to mid-range air quantities whilst still being able to maintain the desired supply air swirl pattern.

The CDS-DM 350 is a highly versatile swirl making it ideal for use in a variety of applications such as office blocks, hospitals, shopping centres, or any building where the even distribution of air is paramount.

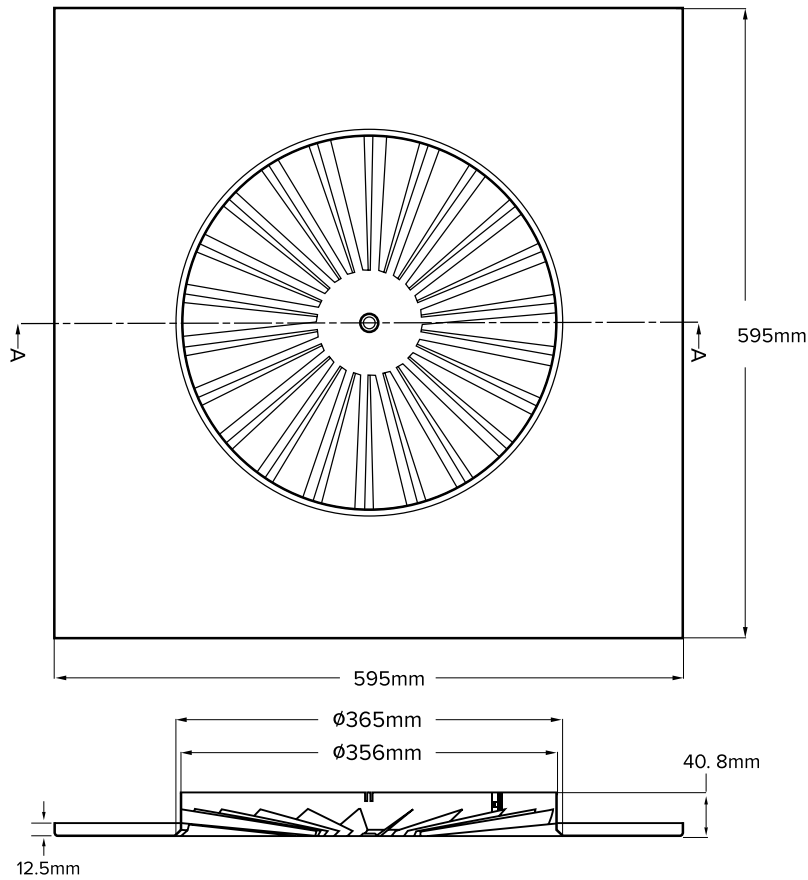
### Product specification codes:

- CDS-DM350-395F** Radial Swirl Diffuser 395mm x 395mm FACE
- CDS-DM350-445F** Radial Swirl Diffuser 445mm x 445mm FACE
- CDS-DM350-595F** Radial Swirl Diffuser 595mm x 595mm FACE



# RADIAL SWIRL DIFFUSER (CDS-DM350)

## Cross Sectional Diagram



## Performance Data

TEST CONDITIONS				SOUND POWER LEVEL, db re 1E-12 W OCTAVE BAND CENTRE FREQUENCY (Hz)						
Qs (l/s)	Ps (Pa)	Th (m)	NC	125	250	500	1000	2000	4000	8000
50	2	2	<11	<38.3	<30.8	<26.2	<22.8	<15.9	<14.5	<14.7
100	6	3.6	<12	40.2	32.1	<26.8	<23.3	<16.2	<14.8	<14.8
150	14	5.6	15	41.6	37.6	31.2	<25.3	<17.6	<14.5	<14.9
180	20	6.7	21	44.2	42.4	36.9	30.3	25.6	<16.6	<15.0
200	25	>7	24	47.7	44.3	39.6	34.0	27.2	19.9	<15.2

### LEGEND

Qa - Primary Air Flow Rate (L/s)    Ps - Supply Static Pressure (Pa)    NC - Noise Criterion based upon room absorption of 10db  
 > - Length of throw greater than that able to be measured    Th - Horizontal Throw in metres at terminal velocity of 0.25m/s  
 < - Insufficient margin above background noise to allow accurate determination