

CTS-DN500 Swirl Diffuser

Cooltech Industries radial swirl diffuser type CTS-DN500 is 22 blade fixed blade swirl diffuser that has an attractive appearance yet is highly versatile and functional in operation. The CTS type swirl diffuser is ideal for lower to mid range airflows yet still has the ability to maintain desired airflow pattern. The CTS –DN 500 is perfect for use in a variety of applications and is particularly suited to large open plan offices and hospitals where even distribution of air is paramount. The CTS –DN500 is available with a square plate sizes of 595x595.

The CTS range of swirls is suitable for ceiling heights up to 2.7m.



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	
165	7	4	17	42.5	37.6	31.4	29.7	25.4	16.4	<13.5	
245	10	5	22	45.9	41.9	35.8	33.6	30.6	20.3	<13.5	
288	13	6	27	49.9	46.4	40.5	38.4	36	26.5	16.3	
351	19	7	32	53.5	50.6	45.8	42.8	39.8	31.8	22.1	
432	29	>7	37	58.4	55.8	51.2	47.5	44.9	37.6	28.9	

LEGEND

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

