

RTGC

- ▶ Swirl
- ▶ Supply
- ▶ Adjustable

Design:

Swirl diffuser:
 face plate: steel
 finish: epoxy powder
 colour: RAL 9010

Blades:
 pattern blades: synthetic
 colour: black,
 white optional

Plenum box:
 material: steel
 sendzimir
 lining: 1/2" ductliner
 finish: none

Damper:
 material: steel
 sendzimir
 finish: none

Available types:

RT - C - -

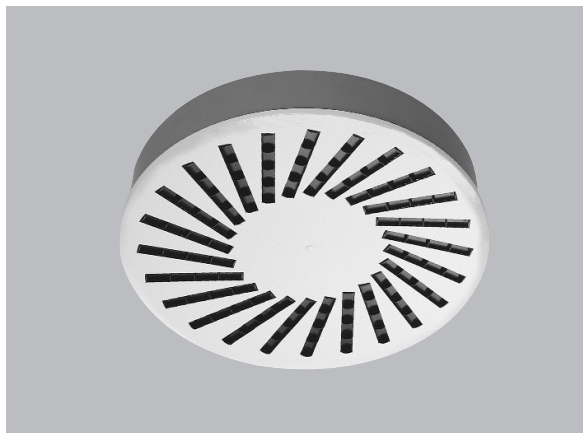
R swirl diffuser
T supply
G reversible air pattern
C round, surface mounted

- accessories

O none
V damper

- designed with

A round top connection
R lined plenum box
 (unassembled)
U un-lined plenum box
 (unassembled)



Application:

The swirl diffuser type RT-C is suitable for the supply of cooled air with a large temperature differential and can be utilised for constant and variable volume installations. The air pattern is reversible adjustable: RTGC or fully adjustable: RTSC. The diffuser may be used for surface mounting as well as for Tee bar mounting. The diffuser is for mounting within the ceiling and can be fitted with a plenum box which is delivered unassembled. The special high induction swirl effect enables a significant number of air changes. The very shallow inflow pattern also makes the diffuser suitable for somewhat lower spaces.

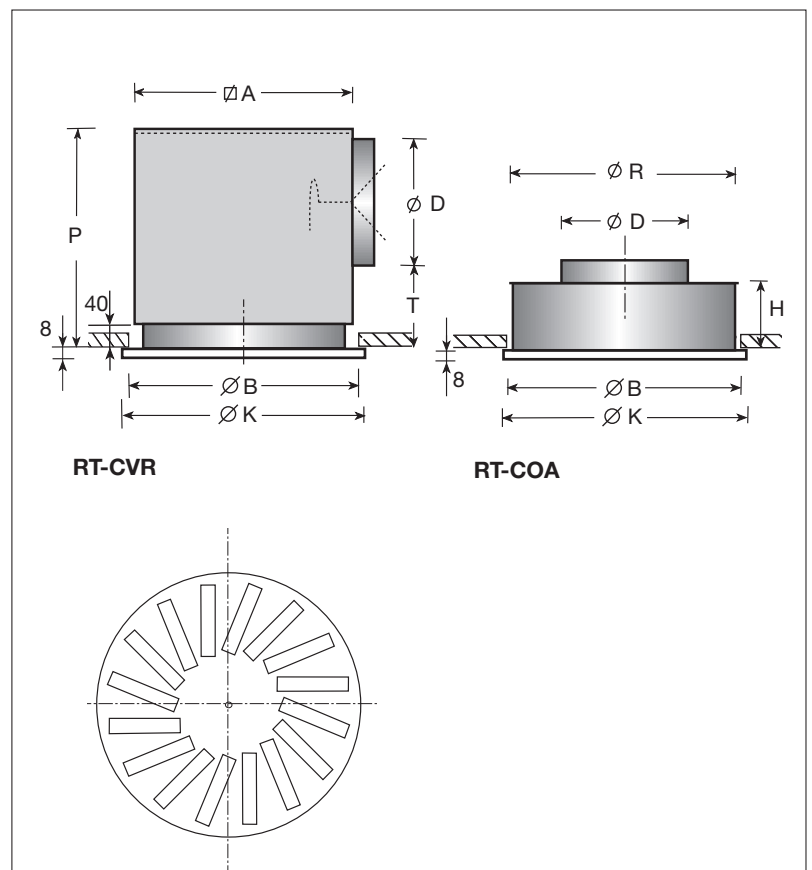
Features:

Max. air exchanges: up to 12 x
 Under temperature: up to 10 K
 Over temperature: up to 15 K

Dimensional data:

model	B	K	D	A	R	P	T	H
300/8	285	300	158	315	280	270	75	190
400/16	378	400	198	408	373	310	75	190
500/16	478	500	198	408	373	310	75	190
600/16	578	600	198	408	373	310	75	190
500/24	478	500	198	508	473	310	75	190
600/24	578	600	248	608	573	360	75	190
600/48	585	600	248	622	580	370	85	290

Dimensions:



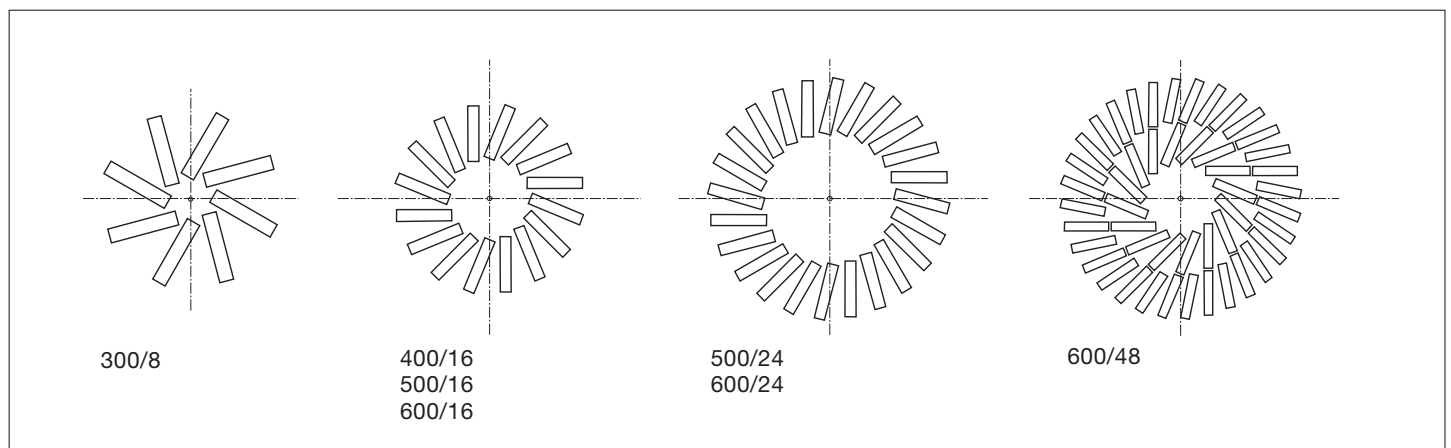
Remarks:

The dimensions are given in mm.

Performance data RTGC:

air volume		model														
		300/8			400/16 500/16 600/16			500/24			600/24			600/48		
m ³ /s	m ³ /h	W	Ps	Lp	W	Ps	Lp	W	Ps	Lp	W	Ps	Lp	W	Ps	Lp
0.015	54	0.7	3	-												
0.020	72	0.9	6	-												
0.025	90	1.1	9	10												
0.030	108	1.3	12	15	1.1	3	-									
0.040	144	1.6	22	22	1.3	6	-	1.1	3	-						
0.050	180	1.9	34	28	1.4	9	13	1.3	4	-						
0.060	216	2.1	50	33	1.6	14	17	1.4	6	12	1.3	2	-			
0.070	252	2.4	68	37	1.7	18	21	1.6	8	16	1.4	3	-			
0.080	288	2.6	88	40	1.8	24	25	1.7	11	19	1.5	4	7			
0.100	360				2.0	38	31	2.0	17	25	1.7	7	13	1.8	5	-
0.125	450				2.3	59	37	2.3	26	31	1.9	11	19	1.9	7	13
0.150	540							2.6	38	35	2.1	15	23	2.0	10	18
0.200	720										2.5	27	31	2.2	18	26
0.250	900										2.8	42	37	2.4	28	31
0.300	1080													2.5	41	36

Blades pattern:



General:

The throw applies to flush mounted in a horizontal dropped ceiling.

- throw T in metres.
- static pressure drop Ps in Pa.

The assumed room absorption is 10 dB.

- sound pressure Lp in dB(A).

Intermediate values may be interpolated.

Throw correction factor:

V _{end} m/s	throw factor
0.15	1.67
0.20	1.25
0.25	1.00
0.35	0.71
0.50	0.50

Throw figures are based on 0.25 m/s end velocity. In case other end velocities are required correct according to table.