RTDO

Perforated ceiling diffuser
Supply
Round
Surface-mounted, suspended

Available types
R T D O - -

R round
T supply
D dropped perforated appearance
O no frame

- **Accessories**
  O none
  H adjustment knob, manually adjustable

- **Version**
  A round top connection
  R internally insulated plenum box (supplied separately)
  U uninsulated plenum box (supplied separately)

SA-Select
Check SA-Select to create extended order codes and selection details online. **NB!** At this moment, SA-Select is only available in Dutch. But it is possible to create extended order codes and selection details online.

Use
The round RTDO ceiling diffuser is suitable for supplying cooled or heated air with a large temperature difference in respect of the room temperature. The diffuser can be fitted suspended or surface-mounted on the suspended ceiling. The throw of the diffuser can be adjusted by using the manual adjustment knob. With the high induction effect, a large number of air changes is feasible. The grid can be supplied with a separately supplied plenum box which is standard equipped with 8 mm hanging holes in the raised edge of the plenum.

Characteristics

Max. number of air changes:	up to 20 x
Undertemperature:	up to 10 K
Overtemperature:	up to 15 K

Version
Perforated diffuser

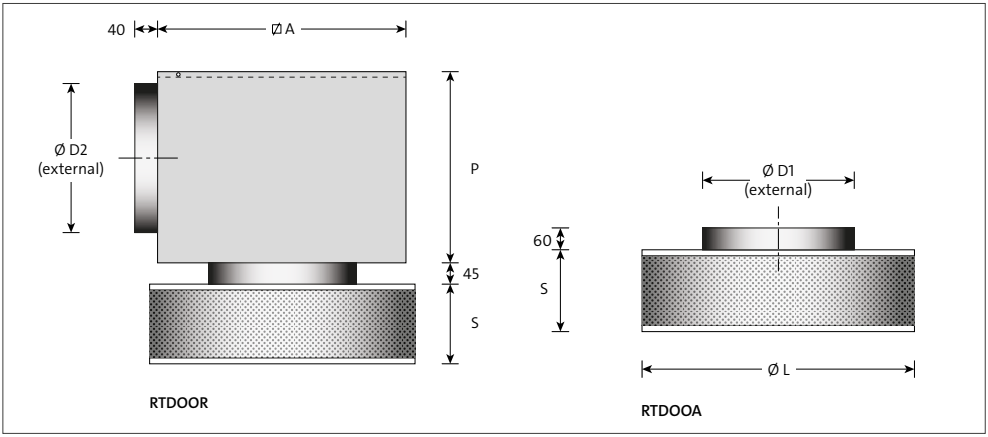
Material:	steel
Post-treatment:	epoxy
Colour:	white RAL 9010, optional RAL colour of your choice
Perforated:	black RAL 9005

Plenum box

Material:	sendzimir galvanised steel
Internal insulation:	1/2” duct liner
Post-treatment:	none

2024_08_v3

Dimensions



Available dimensions and sizes

model	L	A	D1	D2	S	P
200	377	306	198	198	120	395
250	410	381	248	248	120	445
315	478	451	313	313	120	495
355	511	476	353	313	145	495
450	602	571	448	353	170	550

Note

- The listed dimensions are in mm.

Selection details

RTDO

air volume		plenum box length															
		200			250			315			355			450		
m^3/s	m^3/h	throw m	Δp_s Pa	L_{pA} dB(A)	throw m	Δp_s Pa	L_{pA} dB(A)	throw m	Δp_s Pa	L_{pA} dB(A)	throw m	Δp_s Pa	L_{pA} dB(A)	throw m	Δp_s Pa	L_{pA} dB(A)
0.060	**216**	**1.2**	1	-												
0.080	**288**	**1.5**	2	11	**1.5**	2	9	**1.4**	1	6						
0.100	**360**	**1.9**	4	17	**1.8**	3	15	**1.7**	2	12	**1.6**	2	10	**1.5**	1	6
0.125	**450**	**2.4**	6	23	**2.3**	5	20	**2.1**	4	17	**2.0**	3	16	**1.9**	2	12
0.150	**540**	**2.9**	9	28	**2.7**	7	25	**2.6**	5	22	**2.5**	4	20	**2.2**	3	17
0.200	**720**	**3.9**	15	35	**3.7**	12	33	**3.4**	9	30	**3.3**	8	28	**3.0**	5	24
0.250	**900**				**4.6**	19	38	**4.3**	14	35	**4.1**	12	34	**3.7**	8	30
0.300	**1080**							**5.1**	21	40	**4.9**	18	38	**4.5**	12	34
0.400	**1440**													**6.0**	22	42

General

- The throw applies to flush-mounting in a flat, closed ceiling; in the absence of a flat, closed ceiling a throw reduction of 40 % is to be applied.
- The pressure loss applies to a fully available discharge surface.
- The assumed room attenuation is 10 dB.
- It is permitted to interpolate the interim values.

2024_08_v3