

RRBD

Swirl diffuser

Return

Surface-mounted

Use

The RRBD swirl diffuser is suitable for air extraction and has the same appearance as the supply diffuser RTBD.

The diffuser can be fitted in the ceiling and can be fitted with an insulated or uninsulated plenum box, which is supplied ready assembled. As standard, the plenum box is equipped with 8 mm hanging holes in the raised edge of the plenum.

Version

Swirl diffuser

front face: steel
 post-treatment: epoxy
 colour: white RAL 9010, optional RAL colour of your choice

Plenum box

material: sendzimir galvanised steel
 internal insulation: 1/2" duct liner
 post-treatment: none

Optional

plenum box: flat-sided

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.

Available types

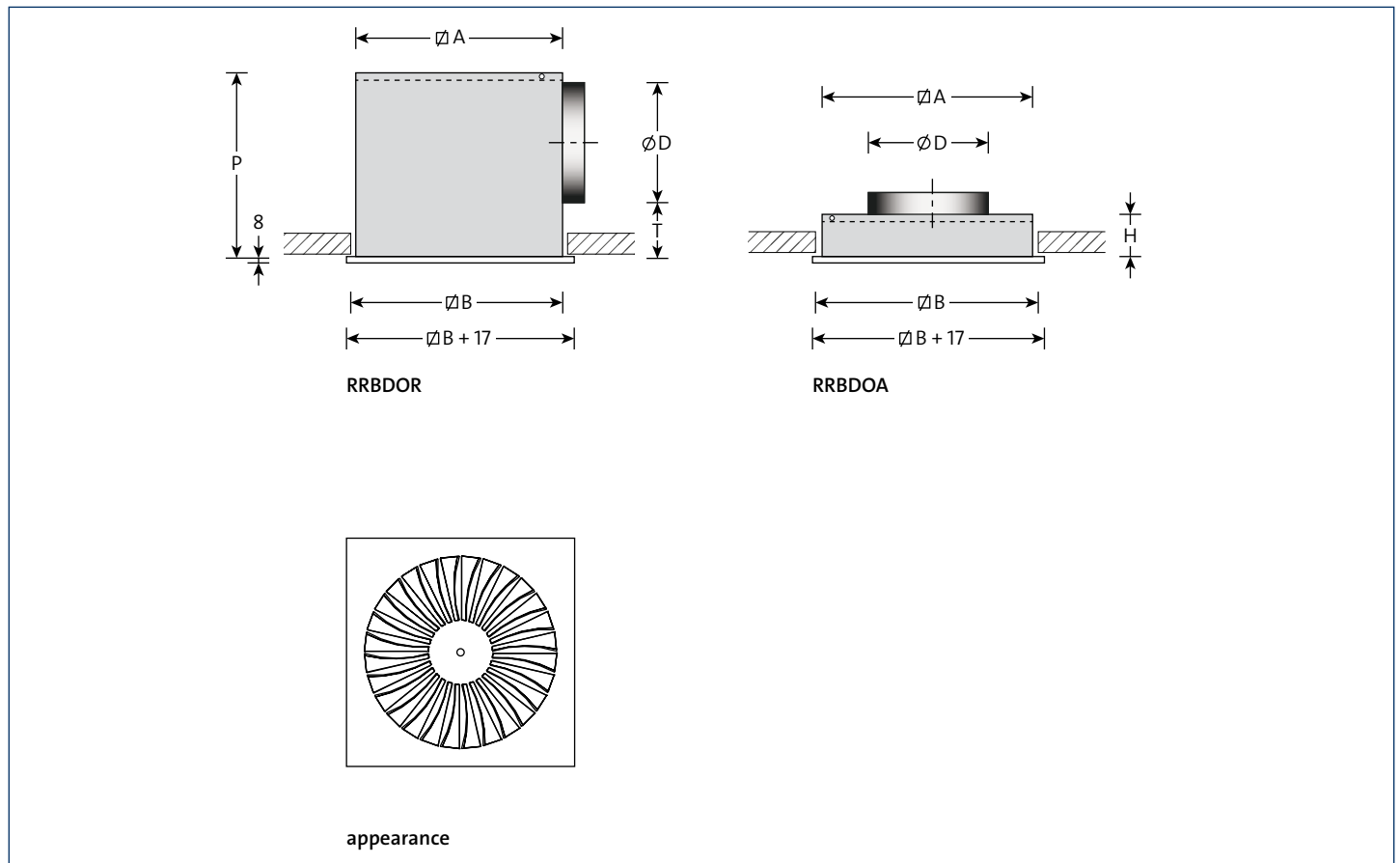
RRBDO -

- R** swirl ceiling diffuser
- R** return
- B** petal shaped
- D** surface-mounted
- O** no accessories

- Version

- A** round top connection
- R** assembled, internally insulated plenum box
- U** assembled, uninsulated plenum box

Dimensions



Available dimensions and sizes

model	B	A	D	T	P	H
250	278	273	123	55	215	110
350	378	373	158	65	260	125
450	478	473	198	75	310	140
550	578	573	248	75	360	160

Weight

model	type	
	without plenum OA	with plenum OR/OU
	kg	kg
250	2.0	2.7
350	3.3	4.5
450	5.0	6.8
550	6.9	9.6

Note

- The dimensions are in mm.
- The face plates of the models 250, 350 and 450 have external dimensions of 295 mm, 395 mm and 495 mm respectively.
- That makes these modules also suitable for modular ceilings with a panel size of 300 mm, 400 mm and 500 mm, respectively. Model 550 is suitable for a panel size of 600.
- Diffusers are suitable for a modular ceiling with a panel size of 600 mm, see type RRBM on our website.
- Information regarding flat-sided plenum boxes is available on our website.

Selection details

RRBD

air volume		round connection		
m ³ /s	m ³ /h	model	Δp_s Pa	L _{pA} dB(A)
0.025	90	250	5	8
0.030	108	250	7	12
0.040	144	250	13	20
		350	5	-
0.050	180	250	20	26
		350	7	13
0.060	216	250	29	30
		350	10	17
		450	3	-
0.070	252	250	40	34
		350	14	21
		450	4	9
0.080	288	350	19	25
		450	6	12
		550	3	-
0.100	360	350	29	31
		450	9	18
		550	5	10
0.125	450	350	45	36
		450	14	24
		550	8	16
0.150	540	450	21	29
		550	11	21
0.200	720	450	37	36
		550	20	28
0.250	900	450	57	42
		550	31	34
0.300	1080	550	44	39

Attenuation values plenum box

model	attenuation values						
	125	250	500	1k	2k	4k	Hz
250	5	0	3	10	5	11	dB
350	2	2	7	7	7	9	dB
450	2	3	9	7	7	9	dB
550	0	6	7	7	6	9	dB

General

- The assumed room attenuation is 10 dB.
- It is permitted to interpolate the interim values.