



## RRBD

**Swirl diffuser**  
**Return**  
**Surface-mounted**

### 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

### 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 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

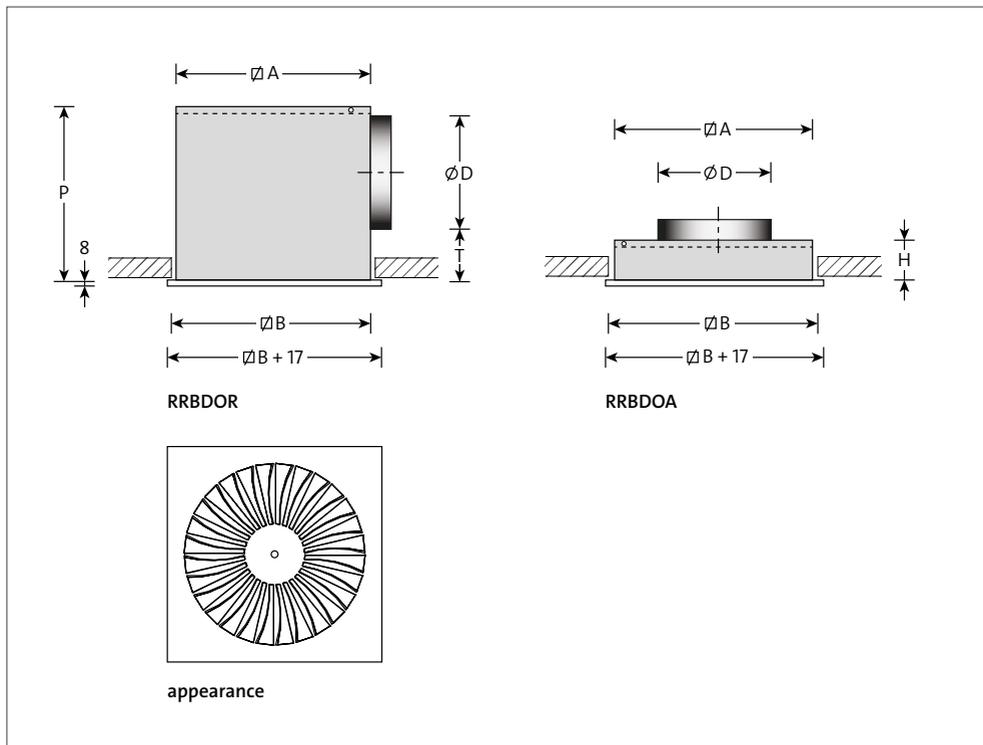
#### Plenum box

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

#### Optional

Plenum box:	flat-sided
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## Maatvoering



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

## Attenuation values plenum box (without end reflection)

model	Attenuation values						
	125	250	500	1k	2k	4k	Hz
<b>250</b>	5	0	3	10	5	11	dB
<b>350</b>	2	2	7	7	7	9	dB
<b>450</b>	2	3	9	7	7	9	dB
<b>550</b>	0	6	7	7	6	9	dB

### General

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