



RTBM/RTBT

Swirl diffuser Supply T-bar mounted in modular ceiling

Available types

RTB-O-

- R** swirl ceiling diffuser
- T** supply
- B** petal shaped
- **Panel**
 - M** modular ceiling panel size 600 mm
 - T** t-bar mounted T24, 8 mm dropped (model 550 only in combination with T-profile)
- 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 RTBM swirl diffuser is suitable for supplying cooled or heated air with a large temperature difference in respect of the room temperature and can be used for constant and variable-volume systems. The discharge openings are not adjustable. The diffuser can be T-bar mounted in a modular ceiling with a panel size of 600 mm and can be fitted with an insulated or uninsulated plenum box, which is supplied ready assembled. The perforated diffuser, type RTBT, is equipped with an 8 mm lowered face plate. As standard, the plenum box is equipped with 8 mm hanging holes in the raised edge of the plenum. With the unique high induction swirl effect, a large number of air changes is feasible. With the extremely shallow inflow pattern, the RTBM diffuser is also suitable for slightly lower rooms.

Characteristics

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

Version

Swirl diffuser

Front face:	steel
Post-treatment:	epoxy
Colour:	white RAL 9010, optional RAL colour of your choice

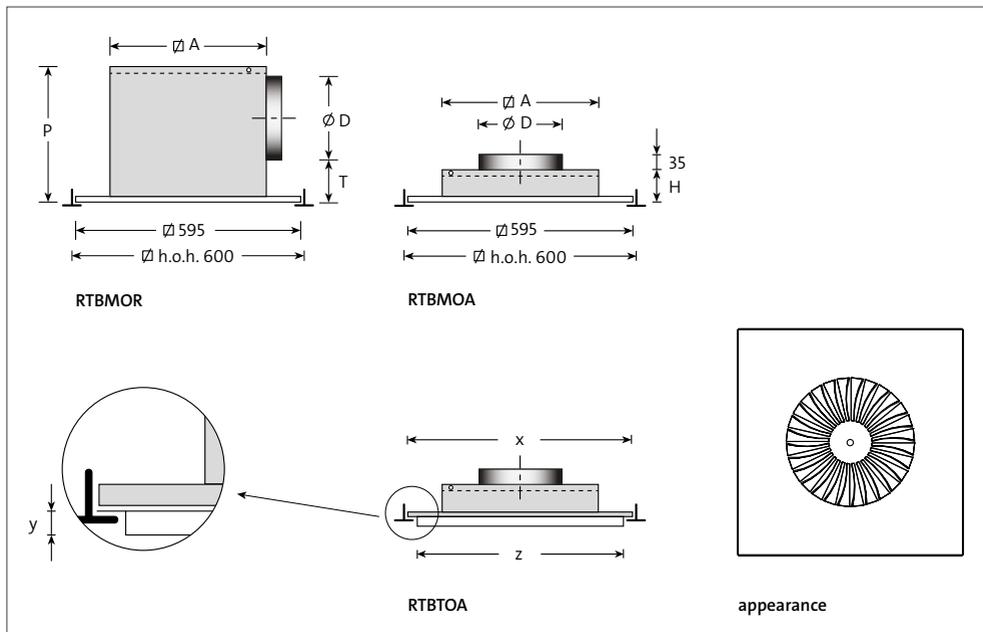
Plenum box

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

Optional

Panel size:	up to 750 mm
Plenum box:	flat-sided
Face plate:	other than inlay T24, lowered by 8 mm on request

Dimensions



Available dimensions and sizes

model	A	D	T	P	H
250	273	123	60	220	115
350	373	158	70	265	130
450	473	198	80	315	145
550	573	248	80	365	165

Weight

model	type	
	zonder plenum OA	met plenum OR/OU
	kg	kg
250	4.2	4.9
350	5.4	6.6
450	6.9	8.8
550	8.7	11.4

Note

- The listed dimensions are in mm.
- Dimensions t-bar mounted dropped:
T-bar mounted 24 mm (standard): X = 595, Y = 8, Z = 574
T-bar mounted 15 mm: X = 595, Y = 8, Z = 583
- For diffusers that are T-bar mounted in a modular ceiling with a smaller panel size, and for surface-mounting, see type RTBD [on our website](#).
- Information regarding flat-sided plenum boxes is available [on our website](#).

Selection details

RTBM/RTBT

air volume		model											
		250			350			450			550		
m ³ /s	m ³ /h	throw m	Δp_s Pa	L_{pA} dB(A)									
0.020	72	0.7	3	-									
0.025	90	0.9	5	-									
0.030	108	1.1	7	16	0.9	3	-						
0.040	144	1.5	13	24	1.2	5	-						
0.050	180	1.9	20	30	1.4	7	16	1.1	2	-			
0.060	216	2.2	28	34	1.7	11	21	1.3	3	-			
0.070	252	2.6	38	38	2.0	15	25	1.5	4	13	1.3	2	-
0.080	288	3.0	50	42	2.3	19	29	1.7	6	16	1.5	3	-
0.100	360				2.9	30	34	2.2	9	22	1.9	5	14
0.125	450				3.6	46	40	2.7	14	28	2.3	7	20
0.150	540							3.2	20	32	2.8	11	25
0.200	720							4.3	36	40	3.7	19	32
0.250	900										4.6	30	38

Attenuation values plenum box (without end reflection)

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 throw applies to flush-mounting in a flat, closed ceiling.
- The assumed room attenuation is 10 dB.
- It is permitted to interpolate the interim values.