RTFM

Swirl diffuser, conical
Supply
T-bar mounted in modular ceiling
Fixed blades

Available types
R T F M O -

R swirl ceiling diffuser
T supply
F fixed blades
M modular ceiling, panel size 600 mm
O no accessories

- **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 RTFM 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 with constant and variable-volume systems. The diffuser has ten fixed mounted blades that are not adjustable. The diffuser is easy to mount with one central screw in the insulated or uninsulated plenum box, which is supplied separately. As standard, the plenum box is equipped with 8 mm hanging holes in the raised edge of the plenum. The diffuser can be T-bar mounted in a modular ceiling with a panel size of 600 mm.

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

Version
Swirl diffuser
Cylindrical cone:	aluminium
Face plate:	steel
Swirl blades:	aluminium
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:	620 mm
Plenum box:	flat-sided

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Dimensions

RTFMOR

RTFMOA
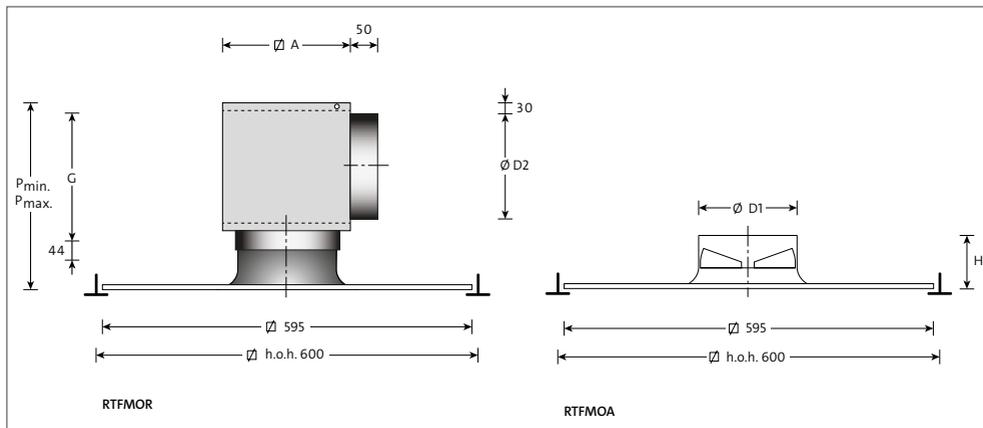
Available dimensions and sizes

model	A	D1	D2	G	H	P min.	P max.
125	184	124	123	171	70	260	280
160	219	159	158	206	95	285	305
200	259	199	198	245	110	330	350
250	309	249	248	296	130	390	420
315	374	314	313	361	165	460	490

Note
- The listed dimensions are in mm.
- Information regarding flat-sided plenum boxes is available on our website.
- For the surface-mounted version, see RTFO on our website.

Selection details
RTFM

air volume		model														
		125			160			200			250			315		
m³/s	m³/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)
0.015	54	0.7	11	-												
0.020	72	1.0	19	15	0.7	5	-									
0.025	90	1.1	30	22	0.9	8	-									
0.030	108	1.4	43	27	1.1	12	11	0.8	3	-						
0.040	144	1.9	70	36	1.4	21	20	1.1	6	-						
0.050	180	2.4	120	43	1.8	33	27	1.4	9	16	1.0	3	-			
0.060	216				2.2	47	32	1.7	13	21	1.3	5	-			
0.080	288				2.8	83	41	2.2	24	30	1.8	10	17	1.4	4	-
0.100	360							2.8	37	37	2.1	15	24	1.7	6	11
0.125	450							3.4	59	44	2.8	24	31	2.1	9	17
0.150	540										3.3	34	36	2.6	13	23
0.200	720										4.3	60	45	3.5	23	32
0.250	900													4.2	37	38
0.300	1080													5.1	53	44

Attenuation values plenum box (without end reflection)

model	attenuation values						
	125	250	500	1k	2k	4k	Hz
125	5	0	3	10	5	11	dB
160	3	1	6	7	7	9	dB
200	2	2	9	7	7	9	dB
250	2	4	9	7	7	10	dB
315	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.