



RTFO

Swirl diffuser, conical
Supply
Surface-mounted, suspended
Fixed blades

Available types

RTFO--

- R** round
- T** supply
- F** fixed blades
- O** surface-mounted

- Accessories

- O** none
- C** clamp ring (RTFO-A only)

- 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 RTFO 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 fit by means of 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. A clamp ring can be supplied as an accessory that enables you to fit the diffuser quickly and easily, without any tools, into a flat ceiling panel.

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
Swirl blades:	aluminium
Post-treatment:	epoxy
Colour:	white RAL 9010, optional RAL colour of your choice

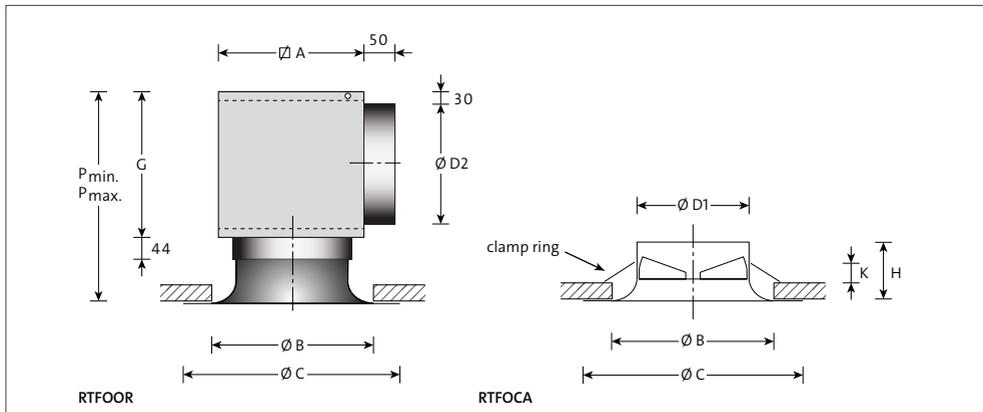
Plenum box

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

Optional

Plenum box:	flat-sided
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Dimensions



Available dimensions and sizes

model	A	B	C	D1	D2	G	H	K	P min.	P max.
125	184	165	205	124	123	171	70	35	260	280
160	219	210	250	159	158	206	95	35	285	305
200	259	260	310	199	198	245	110	45	330	350
250	309	330	380	249	248	296	130	55	390	420
315	374	395	435	314	313	361	165	55	460	490

Note

- The listed dimensions are in mm.
- Information regarding flat-sided plenum boxes is available [on our website](#).
- For the T-bar mounted version, see RTFM [on our website](#).

Selection details

RTFO

air volume		model														
		125			160			200			250			315		
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)
0.015	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; in the absence of a flat, closed ceiling a throw reduction of 40 % is to be applied.
- The assumed room attenuation is 10 dB.
- It is permitted to interpolate the interim values.