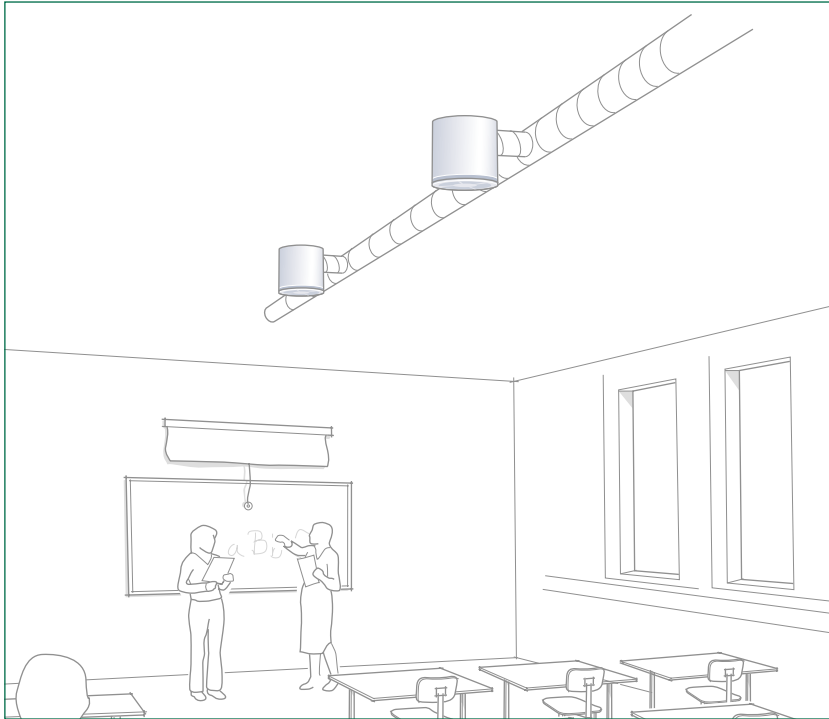


Supply air diffuser ROFA/RPFA



RPFA



ROFA

ROFA and RPFA are a range of supply air diffusers with an integrated connection box for freely suspended installation in a ceiling. The air diffusers are available with round form, with (RPFA) or without (ROFA) perforation. ROFA and RPFA have a slot height of 25 mm.

Quick selection

ROFA/RPFA with 25 mm slot, at 50 Pa

Air diffuser Size	Connection, mm	Air flow l/s (m ³ /h) at sound level		
		25 dB	30 dB	35 dB
R(O, P)FA-100	100	22	35 (126)	-
R(O, P)FA-125	125	33	53 (191)	-
R(O, P)FA-160	160	42	70 (252)	100
R(O, P)FA-200	200	65	88 (317)	115
R(O, P)FA-250	250	105	130 (468)	170
R(O, P)FA-315	315	160	205 (738)	245

- = outside working area.

Product facts

Supply air diffuser ROFA/ RPFA

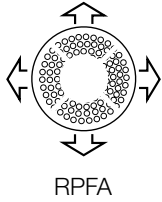
Good sound attenuation.
Easy to assemble.
Easy to balance.
Adjustable diffusion pattern.
Made from hot-dip galvanized steel sheet.
Powder coated in white colour RAL 9010.
6 sizes.

Product code example

Ceiling air diffuser with a perforated under part for visible installation (with integrated connection box), RPFA-160-1.

Air flow, zone length, throw, pressure drop, sound level

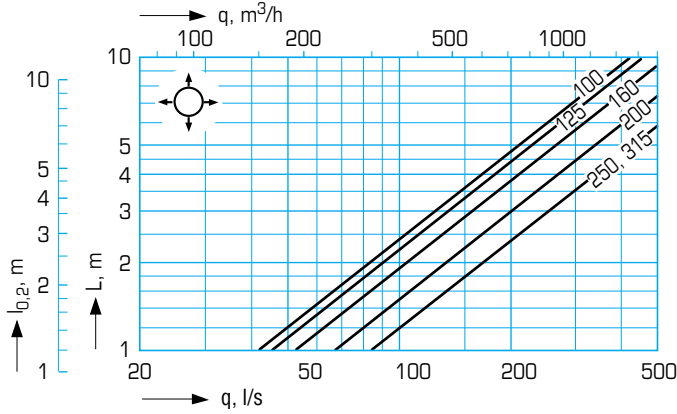
4-way



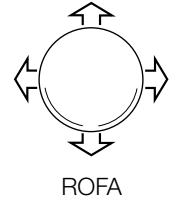
Rund perforerad och operforerad spridare

Nominell spalt 25 mm

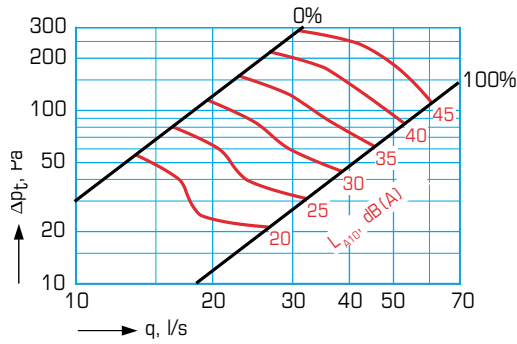
Storleken anger kanalanslutningen i mm



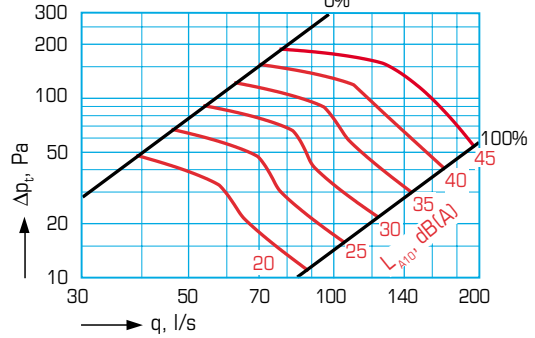
4-way



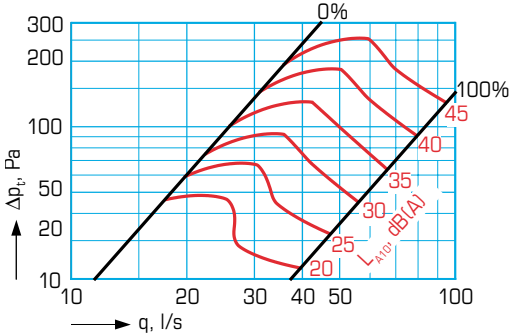
Size 100



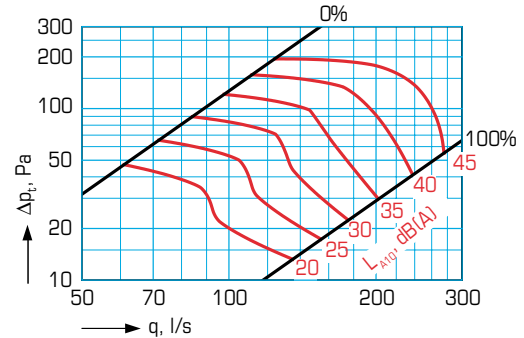
Size 200



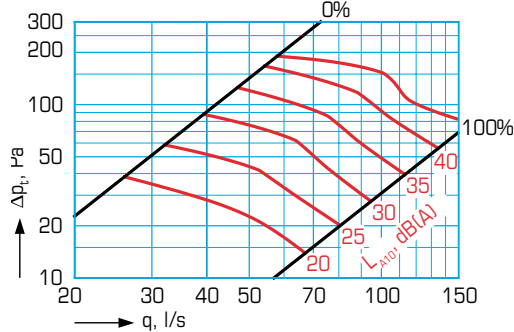
Size 125



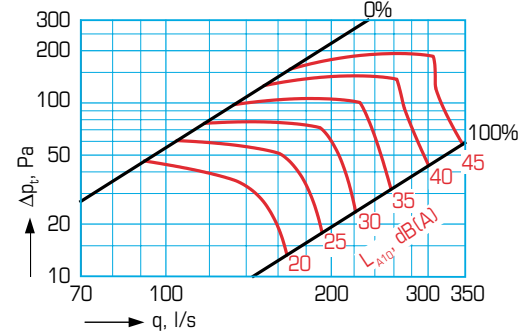
Size 250



Size 160



Size 315



Acoustical data, dimensions and weights

Sound power level, 25 mm slot

Subdivision into frequency-divided sound power L_w is done on the basis of the L_{A10} -values in the graphs and the correction K_{ok} below.

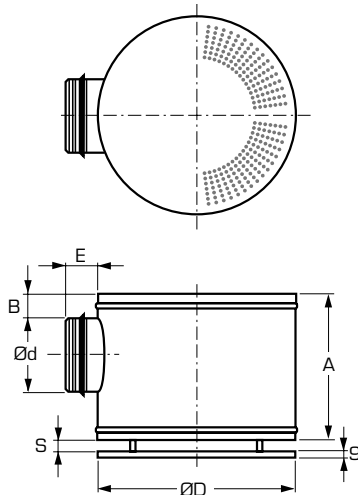
$$L_w = L_{A10} + K_{ok}$$

Size	Correction of sound level K_{ok} in dB at							
	63	125	250	500	1000	2000	4000	8000 Hz
100	5	3	9	0	-2	-8	-19	-17
125	5	3	9	1	-2	-7	-17	-17
160	5	9	10	0	-4	-10	-22	-16
200	8	11	8	3	-4	-14	-22	-16
250	11	13	5	3	-4	-11	-11	-9
315	7	12	6	4	-5	-14	-18	-17
Tolerance \pm	6	3	2	2	2	2	2	3

Sound attenuation, 25 mm slot

Size	Sound attenuation in dB at							
	63	125	250	500	1000	2000	4000	8000 Hz
100	23	16	6	13	8	4	4	5
125	22	13	7	11	10	4	4	4
160	20	7	5	7	6	4	4	4
200	16	5	9	7	4	3	4	4
250	12	3	9	6	3	3	3	4
315	9	5	10	6	3	3	3	5
Tolerance \pm	6	3	2	2	2	2	2	3

Dimensions and weights

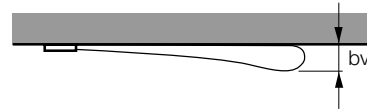


S = 25 mm

Size	A	B	ØD	Ød	E	W, kg
100	233	30	250	99,3	60	2,3
125	268	30	350	124,3	60	3,8
160	313	30	450	159,3	60	5,9
200	363	40	550	199,3	50	8,6
250	463	40	625	249,3	50	11,1
315	608	40	625	314,3	50	13,2

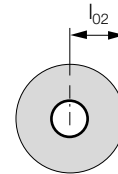
Air stream diffusion

Diffusion pattern vertical.



Diffusion pattern for 4-way air diffusion

Vertical $bv = 0,07 \times l_{0,2}$
 Horizontal Radial diffusion 360°



Execution and function, material, product code

Execution and function

ROFA and RPFA are a range of air diffusers with an integrated connection box for freely suspended installation in a ceiling. The air diffusers are available with round form, with or without perforation. The air diffuser is supplied with a separate diffuser plate and transfer box. ROFA and RPFA are manufactured in 6 sizes.

The connection box has a new measurement damper, which produces a very accurate result in conjunction with balancing. The box measurement damper can be removed from the room, without changing the setting, for inspection and cleaning of the measurement damper, box and connected duct. The box is approved for cleaning. The connection box can be connected directly to a duct bend but different k-factors are applicable for different installation alternatives.

The measurement hoses from the measurement damper are very easily accessible inside the diffuser. This facilitates measurement and balancing.

Material and surface finish

The diffuser is made from hot-dip galvanized steel sheet, SS 1151. The diffusers are powder-coated for a high surface finish and good impact and scratch resistance.

Standard colour White RAL-9010, gloss 30, equivalent to NCS S 0502-Y.

Other colours on request.

Installation, adjustment and maintenance

Instructions for installation, balancing and care are described in detail in our technical instructions, which are supplied with every product. The instructions are also available on the Internet at www.flaktwoods.com.

Technical data and design

For complete dimensioning and for cooling requirement calculations, please refer to the WinDon product selection program. This program with a module for cooling requirement calculations can be found on the Internet at www.flaktwoods.com.

Descriptive text

Air diffuser ROFA and RPFA with an integrated connection box for visible installation in a ceiling and with an adjustable throw and diffusion pattern manufactured by Fläkt Woods, for example in size 160. The cylindrical connection box is approved for cleaning and has a removable measurement damper with the retained flow setting.

Product code

Air diffuser **R(O, P)FA -aaa-1**
(with integrated connection box)

Type _____
P = perforated air diffuser
O = unperforated air diffuser

Size (aaa) _____
100, 125, 160, 200, 250, 315

Accessories

Air diffuser plate, unperforated **RORZ-01-aaa**

Size air diffuser plate, mm _____
250, 350, 450, 550, 625

Air diffuser plate, perforated **RPRZ-01-aaa**

Size air diffuser plate, mm _____
250, 350, 450, 550, 625

Size air diffuser plate	Size air diffuser
250	100
350	125
450	160
550	200
625	250 and 315