

RINO

Supply/extract air diffuser for ceiling mounting in homes





Technical description

Design

RINO is a ceiling diffuser with exceptional design and extremely good air and sound properties.

Thanks to its design RINO is suitable for any room and interior style. In addition to the supply air diffuser, the series includes RINOi exhaust air diffuser. All the products have the same design.

The exceptional design and the structure of RINO efficiently prevents dirt collecting around the ceiling diffuser.



RINO is produced in powder coated steel sheet, white standard color RAL9016.

Different colors are available, off-white (9002), Light green (6034), cool metallic (9006) dark red (8029) and black (9005).



Use dimensioning charts to design the unit. Sound from a diffuser mounted directly after a bend (4 dB) or T-piece (8 dB) will increase the sound compared to charts.



Install the diffuser by dismounting the front plate, fasten the ceiling frame part according to instructions, and re-attach the front plate. Use the accompanying magnet strips to cut and cover desired amount of holes. Use the k-factor and a pressure measurement equipment to set the correct airflow

Maintenance

Clean air diffuser when necessary using warm water and soap. Alternatively use a vacuum cleaner.

K-factor

A pressure of at least 5 Pa is required to obtain at least \pm 10% accuracy of the airflow.

Environment

Building declaration is downloadable at our homepage www.swegon.com

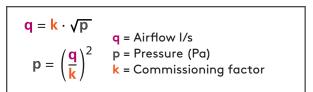
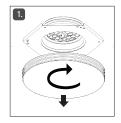


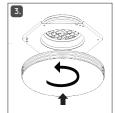
Figure 1. commissioning

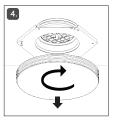


RAL 9002 RAL 6034 RAL 9006 RAL 8029 RAL 9005

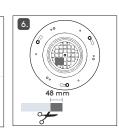












RINO								
		100	125	100i	125i			
	0	3,14	4,48	3,40	4,90			
	1	2,73	4,05	2,89	4,55			
cs m	2	2,31	3,70	2,52	4,10			
Adjustment tape pcs (1 = 4 holes = 48mm)	3	1,96	3,41	2,14	3,80			
nt to	4	1,59	3,04	1,78	3,40			
Adjustment (1 = 4 holes	5	1,24	2,72	1,44	3,04			
Adjus (1 = 4	6		2,44		2,68			
()	7		2,05		2,38			
	8		1,73		1,96			

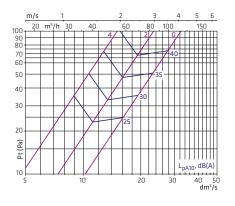
	Airflo	ow	Sound	Pressure		
Dimension			dB(A)	(Pa)		
RINO 100	16	58	25	25		
RINO 125	22	79	25	22		
RINOi 100	16	58	25	18		
RINOi 125	24	86	25	17		
Diffuser fully open						

Dimensioning

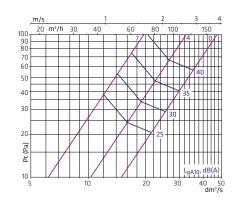
- Throw length is presented at isothermal conditions
- In general, the aim should be to have the air distribution covering up so much of the room as possible.
- Throw length is presented with isovel 0.20 m/s. In winter cases with request for isovel 0.15 m/s correction factor 0.8 is used. In summer case with requests for isovel 0.25 m/s use the correction factor 1.2.
- Recommended max. under-temperature is 10K.
- Noise level is presented in dB(A) with an acoustic room absorbance of 4 dB (10m2 equivalent sound absorption area).
- Mounting directly after a bend (4 dB) or T-piece (8 dB) will increase the sound compared to charts

Supply air

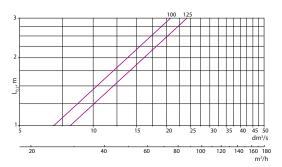
RINO 100



RINO 125

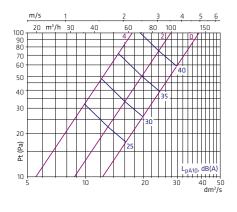


Throw length

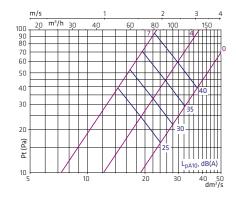


Extract air

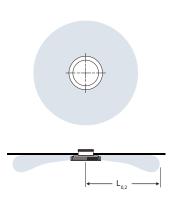
RINOi 100



RINOi 125



Throw pattern



Sound data

Sound power level $L_{\rm W}$ (dB) table $K_{\rm ok}$

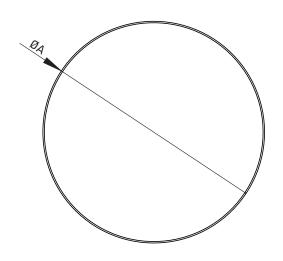
		Frequency (octave) Hz						
Dimension	63	125	250	500	1000	2000	4000	8000
RINO 100	4	7	4	1	-3	-5	-8	-14
RINO 125	1	4	3	1	-1	-5	-7	-14
RINOi 100	1	4	3	1	-1	-5	-7	-14
RINOi 125	-6	3	2	0	-3	-5	-7	-12
Tol +/-	6	3	2	2	2	2	2	2

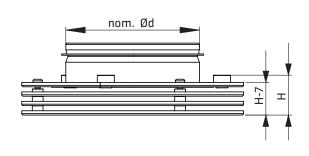
Sound attenuation ΔL (dB) table

		Frequency (octave) Hz						
Dimension	63	125	250	500	1000	2000	4000	8000
RINO 100	20	16	12	8	5	5	6	6
RINO 125	20	14	9	5	3	2	4	5
RINOi 100	20	14	9	5	3	2	4	5
RINOi 125	20	14	9	5	3	2	4	5
Tol +/-	6	3	2	2	2	2	2	2

Dimensions and weight

	nom Ød	ØA	н	kg
RINO 100	100	206	28	0,7
RINO 125	125	206	37	0,8
RINOi 100	100	206	28	0,7
RINOi 125	125	206	37	0,8





Order key

Product

Supply air diffuser:	RINO-	aaa
Dimension: 100, 125		

Alternative appearance

Color	RAL	bbb
9016(standard) 9002, 6034, 900	06, 8029, 90	005

Product

Extract air diffuser:	RINOi	aaa
Dimension: 100, 125		

Alternative appearance

Color	RAL	bbb
9016(standard) 9002, 6034, 90	06, 8029, 90	005

Specification text

QMC SUPPLY AIR DIFFUSER FOR CEILING

MOUNTING

Multiple slot diffuser with commissioning possibility designed for premises with small airflows.

TDXX

Supplier: Swegon
Type: RINO
Color: RAL bbb
Dim. aaa xx pcs

QME EXTRACT AIR DIFFUSER FOR CEILING

MOUNTING

Multiple slot diffuser with commissioning possibility designed for premises with small airflows.

FDXX

Supplier: Swegon
Type: RINOi
Color: RAL bbb
Dim. aaa xx pcs