

Econox ceiling grille, steel

Description and function

The Econox ceiling grille circular ceiling diffuser offers an aesthetic minimalistic design, making it ideal for comfort applications. The unit consists of a pressed diffuser plate equipped with environmentally friendly noise-absorbing insulation and a back section with a circular air connection. The airflow and throw length can be calibrated by manually adjusting the slot opening to five standard heights, achieved by carefully pulling down or pushing up the front plate. The diffuser can be connected directly to an air duct system or a commissioning box.

Applications

The Econox ceiling grille diffuser is recommended for comfort ventilation purposes, such as residential applications, offices, schools, retail stores, hospitals, restaurants, hotels and more.

Airflow range

50-450 m³/h (14-125 l/s)

Standard sizes

Ø125, 160, 200, 250 mm

Materials

The front diffuser plate is made of galvanized steel, the back section is made of sheet steel. The unit is available in RAL 9010, 9016, and 9005 color. The air connection features an EPDM sealing.



Main characteristics

- Circular supply air diffuser
- Aesthetic, minimalistic appearance
- Adjustable front plate for varied throw length and pressure drop
- 360° air distribution patterns
- Draught-free operation at a low noise level
- Easily removable front plate

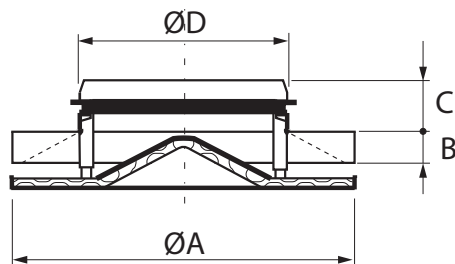
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Dimensions

T.1.

Size	A	B	C	ØD	Weight/kg
					air distribution pattern
125	205	20	35	123	0,60
160	260	20	36	158	0,89
200	330	24	40	198	1,4
250	410	26	40	248	2,05

The indicated sizes are shown in mm.



Sound data

T.2. Correction K_{OK} [dB]

Size	Medium frequency [Hz]						
	125	250	500	1000	2000	4000	8000
125	+3	+1	+1	0	-4	-10	-14
160	+4	+3	+2	-1	-6	-12	-18
200	+5	+4	+3	-2	-7	-11	-17
250	+6	+5	+3	-3	-7	-13	-18

Tolerance ± 3 dB

The sound level is applicable at an equivalent sound absorption area of 10 m².

Sound effect level: L_W [dB]

Sound level: L_{PA} [dB(A)], see diagram 1-5.

Correction factor: K_{OK} [dB] from table 2.

$$L_W = L_{PA} + K_{OK}$$

T.3. Sound attenuation [dB]

Size	Medium frequency [Hz]						
	125	250	500	1000	2000	4000	8000
125	+21	+16	+10	+10	+10	+8	+8
160	+18	+14	+8	+7	+8	+6	+6
200	+16	+12	+7	+6	+7	+5	+5
250	+14	+10	+6	+5	+6	+4	+4

Tolerance ± 3 dB

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Diagrams

