

DCGa

Displacement terminal unit for small air flows



DCGa

FUNCTION

DCGa is a circular displacement terminal which supplies small quantities of air at low velocity to the occupied zone. Suitable for large assembly rooms where the floor is divided up into terraces, such as theatres, cinemas, assembly halls etc. The terminal is located on the terrace risers.

QUICK FACTS

- Fixed spread pattern
- Simple installation
- No maintenance is required
- Cleanable

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DESIGN

The DCGa is made of zinc-coated sheet steel. There is an outer cone with a duct connection, mounted with a rubber seal, and a field-perforated inner cone and side slot. The terminal is painted matt black as standard, although other colours can be ordered, if the colour code is specified. NCS or RAL numbers. The DCGa is available as one model and in one size.

SPECIAL

In addition to the standard sizes, the terminals can be supplied in special sizes etc. Please contact your nearest Stifab Farex office for information.

PLANNING

ASSEMBLY: The terminal is mounted to the terrace risers.

COMMISSIONING: Regulation of air flow is carried out within the underseat void.

TECHNICAL DATA

The sound level dB(A) applies to rooms with 10 m² equivalent absorption area.

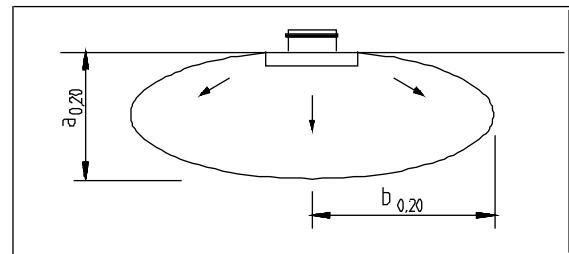
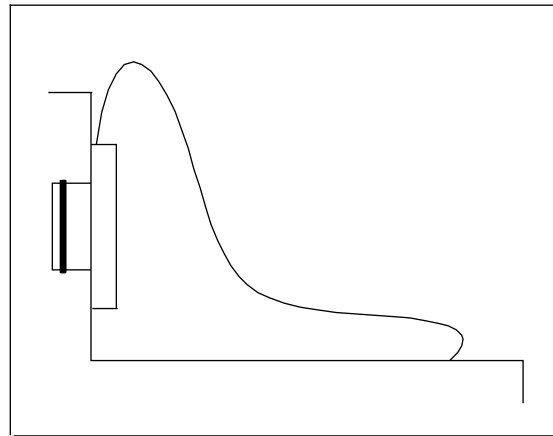
SPREAD PATTERN

Data shown for factory-set spread pattern.

$a_{0.20}$ = perpendicular distance from the wall to the 0.20-isovel.

$b_{0.20}$ = distance parallel to the wall from the centre of the terminal to the 0.20-isovel.

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SOUND DATA - DCGa

Sound power level L_w (dB)

Table K_{OK}

Size	Mid-frequency (octave band) Hz						
	125	250	500	1000	2000	4000	8000
100	10	4	0	1	-6	-21	29
Tol. ±	2	2	2	2	2	2	2

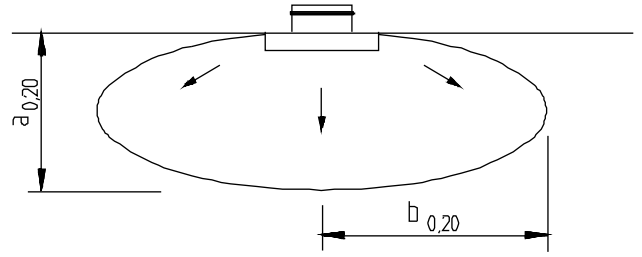
Sound attenuation ΔL (dB)

Table ΔL

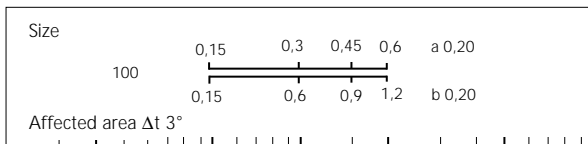
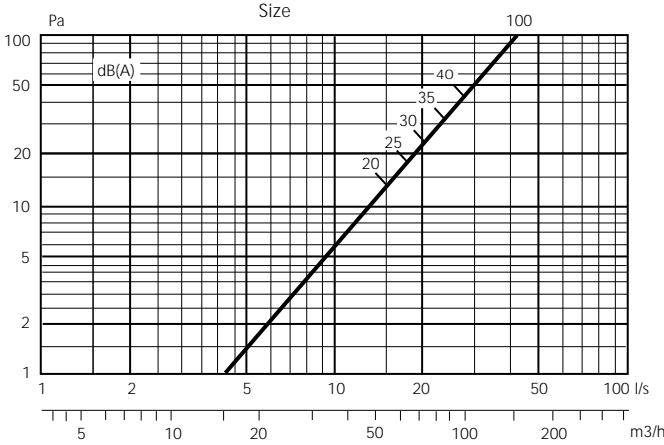
Size	Mid-frequency (octave band) Hz						
	125	250	500	1000	2000	4000	8000
100	15	11	7	4	3	0	0
Tol. ±	2	2	2	2	2	2	2

Engineering graph - DCGa

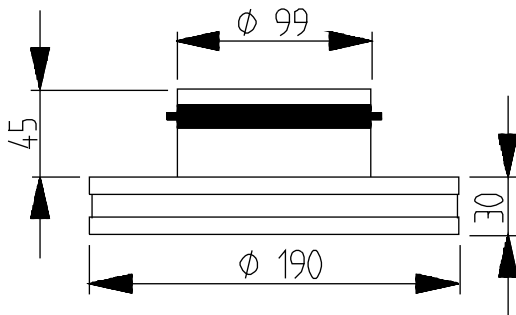
The graph presents air flow, pressure drop, sound level and affected areas $a_{0,20}$ and $b_{0,20}$. The affected area refers to the distance to the 0.2-isovel with $\Delta t = -3^\circ\text{C}$ measured independently of the distance from the floor. Δt refers to the difference between the room air temperature, measured 1.2 m above the floor, and the supply air temperature. It is not the difference between the exhaust and supply air temperatures. This graph presents engineering data only and may not be used for commissioning.



DCGa 100



Dimensions and weight



ORDER KEY

Product designation

Circular displacement terminal DCGa 100

Specification example

Stifab Farex displacement terminal, type DCGa, with the following functions:

- Fixed spread pattern
- Non-fouling and maintenance free
- Suitable for terraces
- Painted matt black

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Notes

7.7.4
