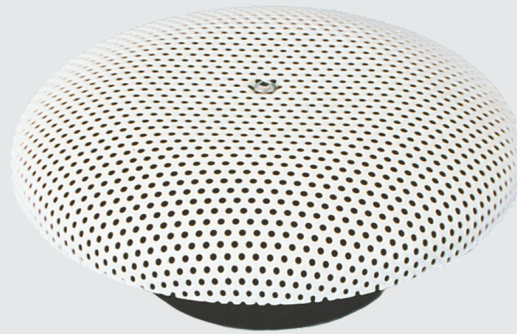


Displacement unit

DUS



### Description

DUS is an exposed hemisphere-shaped displacement diffuser for ventilation in movie theaters, congress halls, schools, etc.

The unit was designed to be mounted under seats/chairs, on the vertical surface of the step. It is connected to either the common pressure chamber under the auditorium, or directly to individual air connection ducts. DUS is equipped with an adjustable (?) deflector plate, that is able to increase the pressure drop to 15-35 Pa, depending on the position of the plate, providing a more even air distribution.

Recommended  $\Delta t$ : 3 - 4°C

### Size

100 mm.

### Airflow range

35 -75 m<sup>3</sup>/h (10-21 l/s)

Pressure drop: between 15-35 Pa

### Material

Perforated sheet steel, powder coated in RAL 9003 standard white color. Rubber sealing on the air spigot connection.

### Cleaning and maintenance

Cleaning is required when dirt has become visible on the unit. Use a damp cloth possibly with a little detergent. The perforated front may be disconnected by removing the screws.

### Main features

- Draft-free ventilation of theaters and congress halls
- Consistent air distribution

## Sound data

### T.1. Correction $K_o$ dB

Type	Medium frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
DUS 100	+12	+4	+1	0	0	-2	-4	-4

Tolerance  $\pm 3$  dB

### T.2. Sound attenuation dB

Type	Medium frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
DUS 100	8	5	4	4	6	8	7	6

Tolerance  $\pm 3$  dB

The sound level is applicable at an equivalent sound absorption area of 10 m<sup>2</sup>.

Sound power level:  $L_w$  [dB]

Sound level:  $L_A$  [dB(A)]

See diagram 1.

Correction factor:  $K_o$  [dB]

Correction factor  $K_o$  [dB] from table 1.

$$L_w = L_{PA} + K_o$$

## Dimensions

### T.3.

Type	$\phi A$	B	C	$\phi D$	$\phi E$
DUS 100	185	37	33	98.5	100

The product can be manufactured in different dimensions on request.

## Specification

Ordering code:	DUS	XXX
Product acronym:	DUS	
Size:		100
Example: DUS 100		

## Diagram

### D.1.

#### DUS-100

