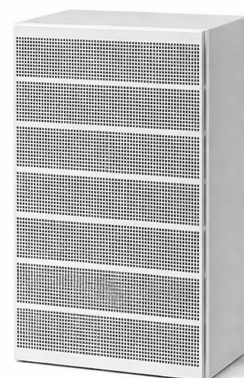




Displacement Diffusers

DD01



At Gerhman we are driven by a strong desire to continuously generate improvements. We do that by developing products and systems that are easy to use and energy efficient, together with industry-leading knowledge, support, logistics and efficient availability.



gerhman.com

Displacement Diffuser

DD01



DD01 is a rectangular, perforated displacement diffuser designed for installation adjacent to walls or columns. Positioned behind the perforated front panel, the unit features individually adjustable nozzles that allow precise control of the near-zone airflow pattern.

Thanks to its rotatable design and circular duct connection , DD01 can be connected either from the top or the bottom, providing installation flexibility. The diffuser is ideal for supplying large quantities of moderately cooled air in comfort ventilation applications.

Key features:

- Suitable for delivering high air volumes
- Near-zone airflow characteristics can be fine-tuned via adjustable nozzles
- Optional plinths are available as accessories

Technical Specifications

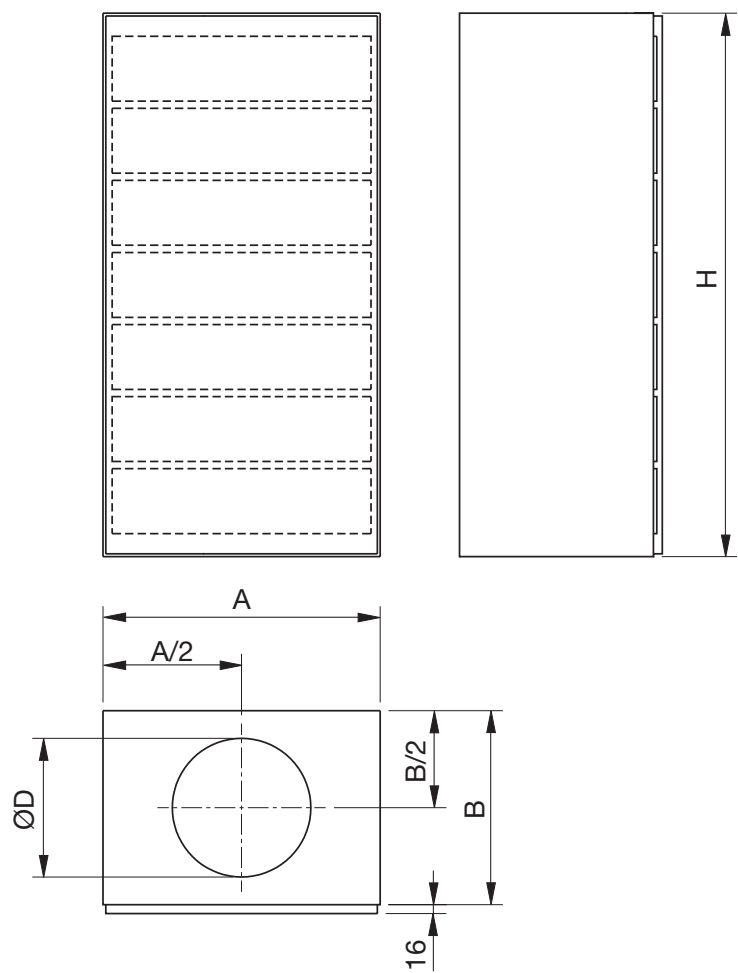
- Diffuser body:** Galvanised steel
- Front plate:** 1 mm thick galvanised steel
- Surface finish:** Powder-coated
- Standard colours:**

RAL 9003 – White

RAL 9010 – White

Alternative colours: Available upon request

Sizes

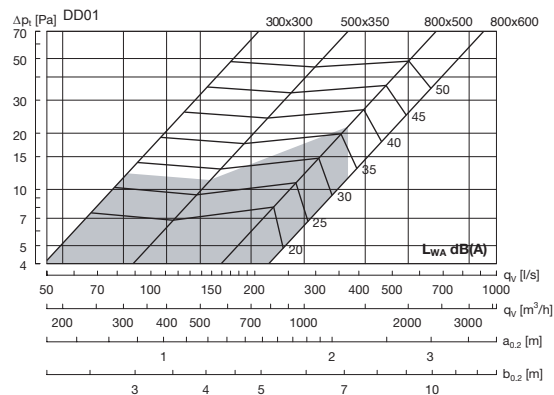


Size	A	B	ØD	H
300x300	300	300	200	980
500x350	500	350	250	980
800x500	800	500	315	1500
800x600	800	600	400	1500

In mm

Performance

Technical data

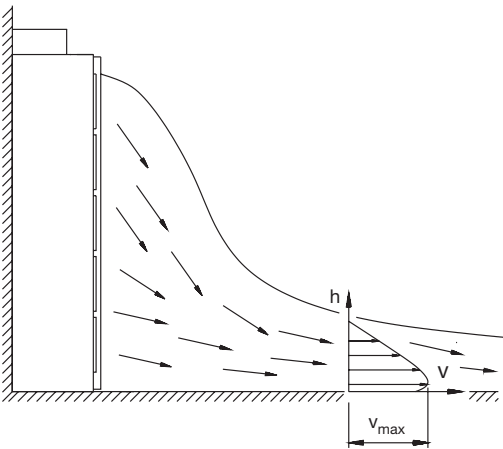


Recommended maximum volume flow.

The near zone is given at an under-temperature of -3 K to a maximum terminal velocity of 0.20 m/s.

Conversion to other terminal velocities - see table 1, correction of the near zone for -3 K and -6 K respectively.

Nearzone



Large diffusion
(factory setting)

Small diffusion

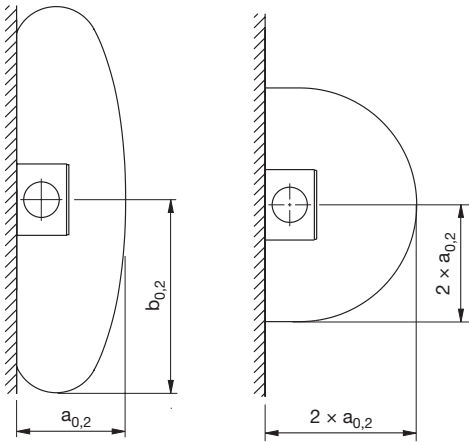


Table 1
Correction of the near zone ($a_{0,2}$, $b_{0,2}$)

Under-temperature $T_i - T_r$	Maximum velocity m/s	Mean velocity m/s	Correction factor
-3K	0.20	0.10	1.00
	0.25	0.12	0.80
	0.30	0.15	0.70
	0.35	0.17	0.60
	0.40	0.20	0.50
-6K	0.20	0.10	1.20
	0.25	0.12	1.00
	0.30	0.15	0.80
	0.35	0.17	0.70
	0.40	0.20	0.60



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