

Lindab CEA Rectangular Diffuser User Guide

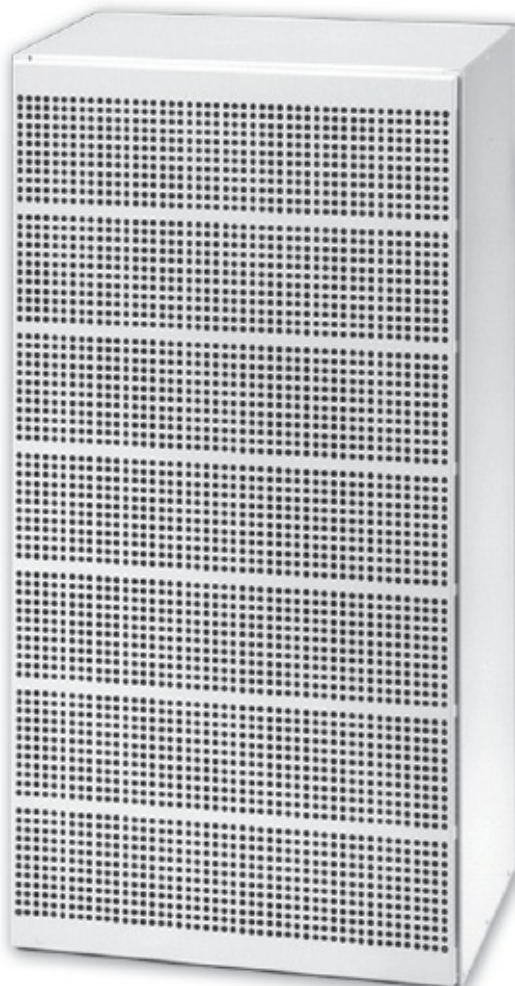
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Lindab CEA Rectangular Diffuser



Description

Comdif CEA is a rectangular perforated displacement diffuser for installation against a wall or column. Behind the perforated front plate, CEA is equipped with individually adjustable nozzles, making it possible to alter the geometry of the near zone. The diffuser can be turned and has a circular duct connection (MF measure), so the diffuser can be connected at the top or bottom. The diffuser is suitable for the supply of large volumes of moderately cooled air.

- The diffuser is suitable for the supply of large volumes of air.
- The geometry of the near zone can be adjusted using adjustable nozzles.
- Plinths can be supplied as accessories.

Maintenance

The front plate can be removed from the diffuser, making it possible to clean the nozzles. The visible parts of the diffuser can be wiped with a damp cloth.

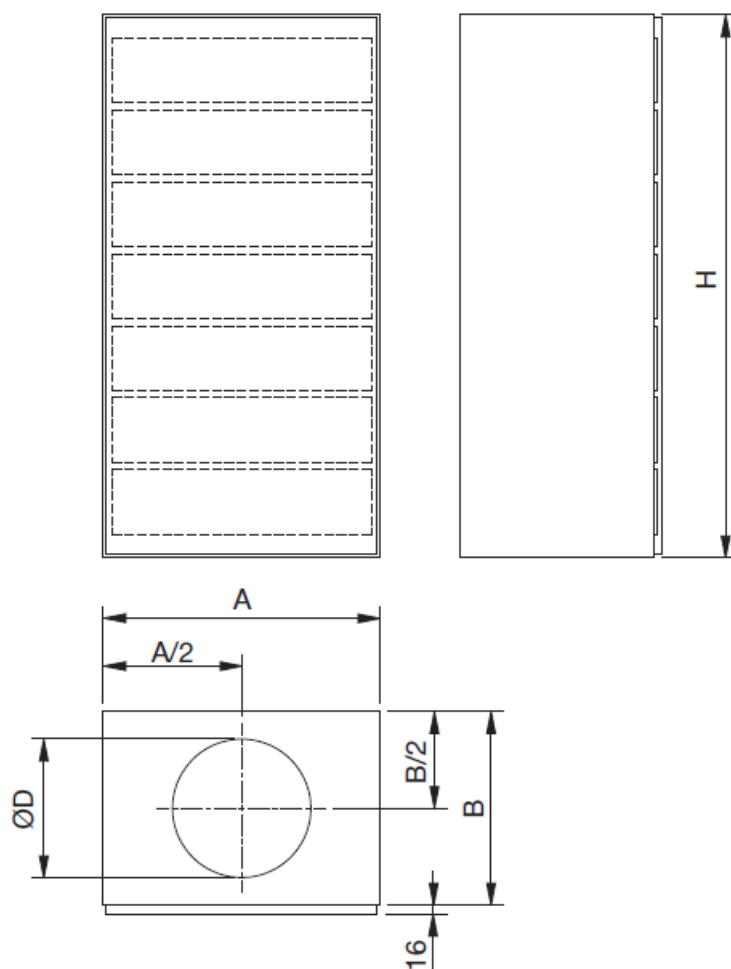
Ordering example

Product	CEA	aaaa
Type		
Size		

Order – accessories

- **Plinth:** CEAZ – 2 – size

Dimension



Size	A [mm]	B [mm]	ØD [mm]	H [mm]	Weight [kg]
2010	300	300	200	980	12.0
2510	500	350	250	980	24.0
3115	800	500	315	1500	80.0
4015	800	600	400	1500	96.0

Accessories

- Can be supplied with plinth.

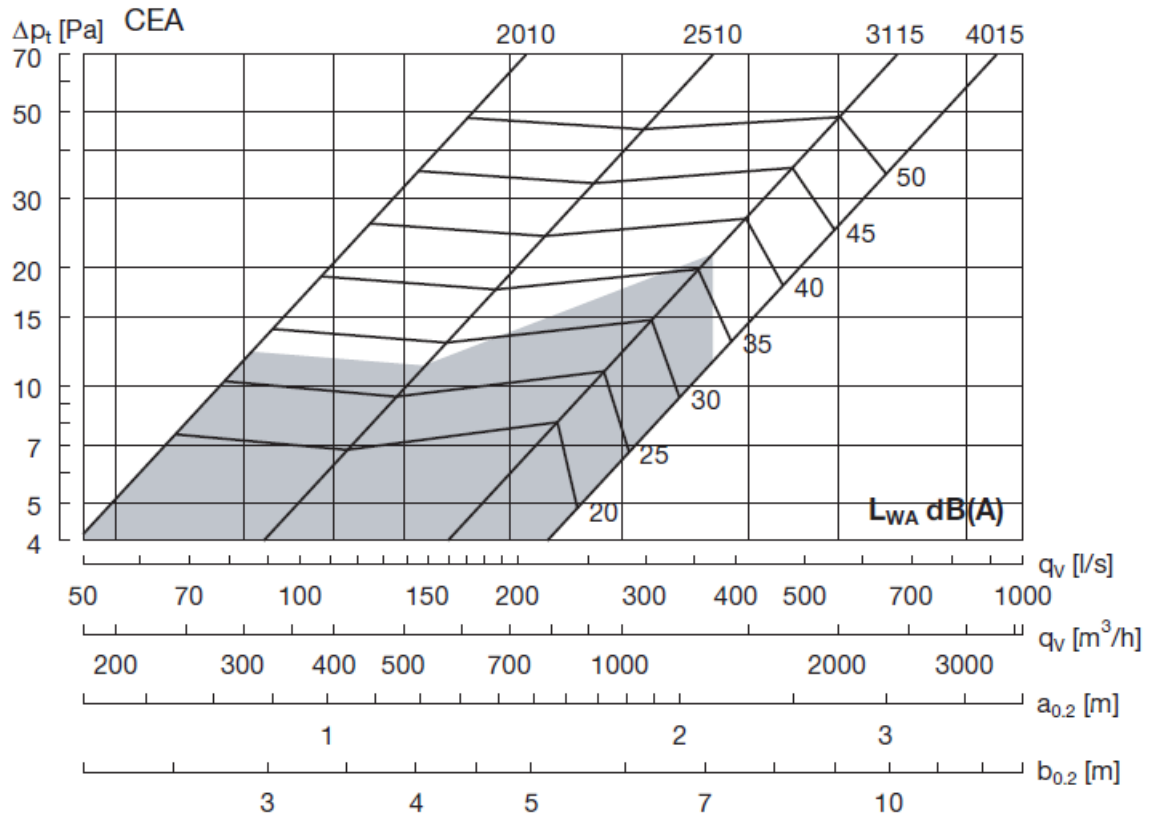
Materials and finish

- **Diffuser:** Galvanised steel

- **Nozzles:** Black plastic
- **Front plate:** 1 mm galvanized steel
- **Standard finish:** Powder-coated
- **Standard color:** RAL 9003 or RAL 9010 – white, gloss 30.

The diffuser is available in other colours. Please contact Lindab's sales department for further information.

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.

Sound effect level

- Sound effect level LW [dB] = L_{WA} + K_{ok}

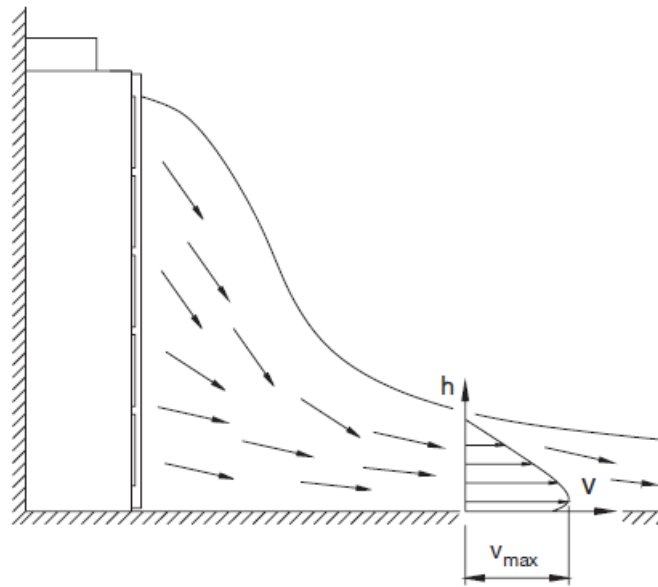
Size	63	125	Centre frequency Hz				4K	8K
			250	500	1K	2K		
2010	11	4	4	−1	−8	−14	−25	−37
2510	8	4	2	0	−6	−16	−27	−40
3115	14	6	3	−1	−8	−17	−29	−25
4015	11	3	2	1	−10	−18	−30	−37

Sound attenuation

- Sound attenuation ΔL [dB] including end reflection.

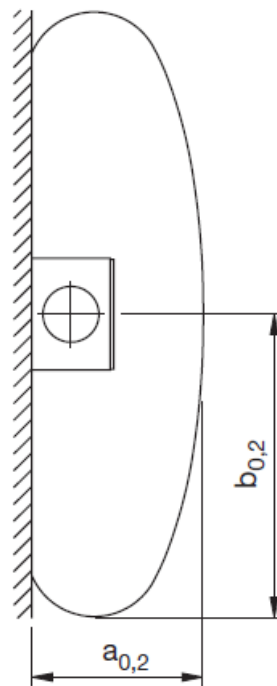
Size	63	125	Centre frequency Hz				4K	8K
			250	500	1K	2K		
2010	10	6	1	4	5	3	4	4
2510	10	6	6	4	2	2	4	3
3115	9	6	5	3	3	4	4	5
4015	8	5	3	3	2	3	4	4

Nearzone



Large diffusion
(factory setting)

Small diffusion



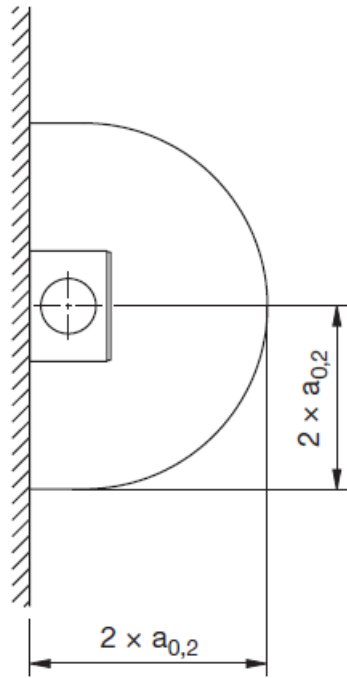


Table 1

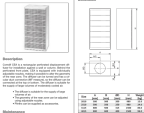
- Correction of the near zone ($a_{0,2}$, $b_{0,2}$)

Under- temperature $T_i - T_r$	Maximum velocity m/s	Mean velocity m/s	Correction factor
	0.20	0.10	1.00
	0.25	0.12	0.80
-K3	0.30	0.15	0.70
	0.35	0.17	0.60
	0.40	0.20	0.50
	0.20	0.10	1.20
	0.25	0.12	1.00
-6K	0.30	0.15	0.80
	0.35	0.17	0.70
	0.40	0.20	0.60

Lindab reserves the right to make changes without prior notice

Documents / Resources

Perforated diffuser - rectangular CEA



Dimensions

Length: 1000 mm (39.37 in.)

Width: 500 mm (19.69 in.)

Height: 100 mm (3.94 in.)

Weight: 1.5 kg (3.31 lb)

Material

Aluminum

Accessories

Mounting brackets

Ordering code

Model: CEA-1000-500-100

Part: 1000-500-100

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CEA Rectangular Diffuser, CEA Diffuser, Diffuser