Lindab CCA Circular Perforated Diffuser User Manual

Contents

Lindab CCA Circular Perforated Diffuser

Description

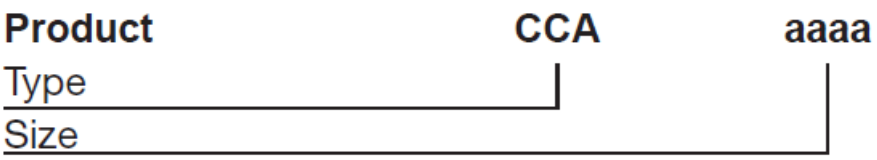
Comdif CCA is a circular perforated displacement diffuser for freestanding installation. Behind the perforated front plate, CCA is equipped with individually adjustable nozzles, making it possible to alter the geometry of the near zone. The diffuser can be turned and has a circular duct connection (MF 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.

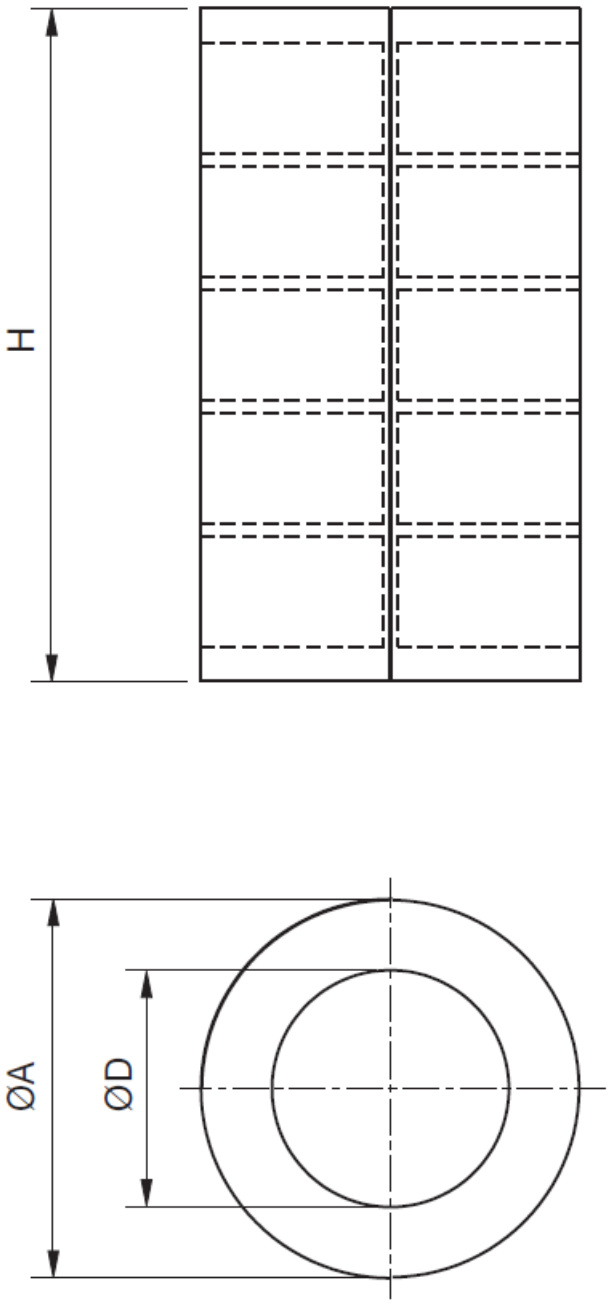
Ordering example



Order – accessories

- Plinth: CCAZ – 2 – size

Dimension



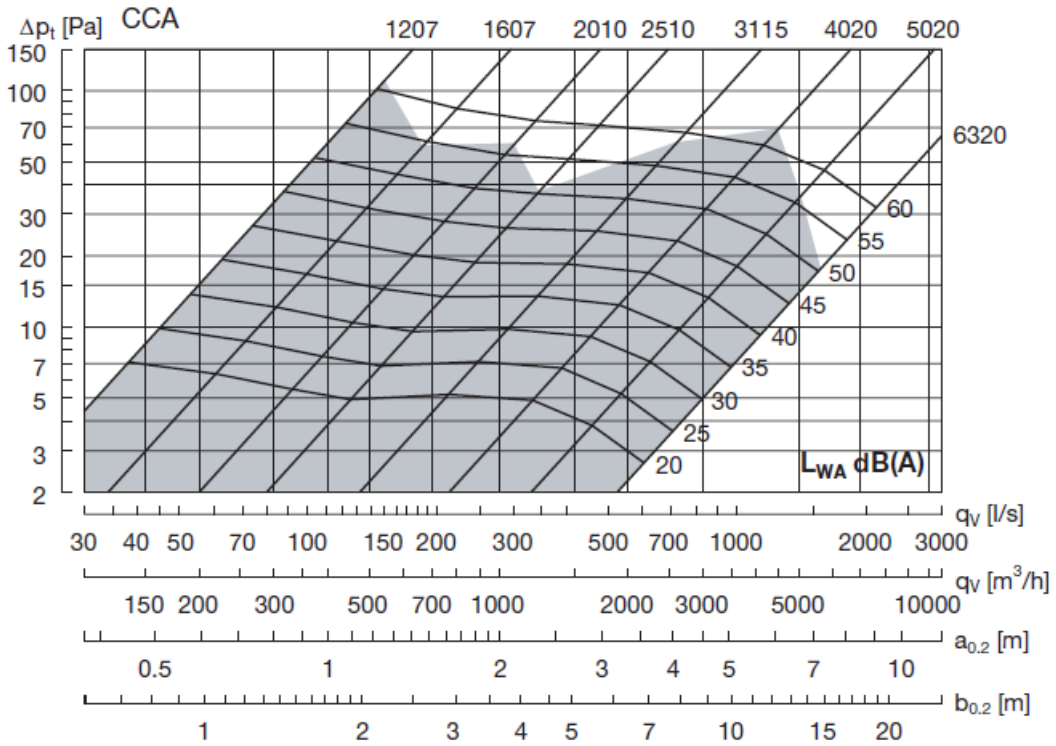
Size	ØA [mm]	ØD [mm]	H [mm]	Weight [kg]
1207	250	125	710	5.00
1607	300	160	710	7.50
2010	360	200	970	13.0
2510	400	250	970	18.0
3115	520	315	1490	35.0
4020	630	400	2010	58.0
5020	730	500	2010	78.0
6320	830	630	2010	106

Materials and finish

- **Diffuser:** Galvanised steel
- **Nozzles:** Black plastic
- **Front plate:** 1 mm galvanised steel
- **Standard finish:** Powder-coated
- **Standard colour:** RAL 9003 or RAL 9010 – white

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

Technical data



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] = LWA + Kok

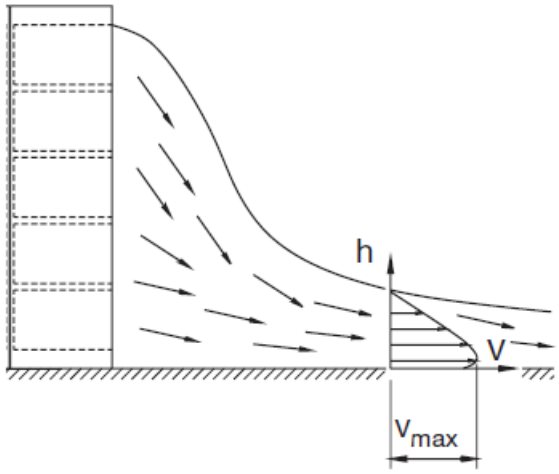
Size	63	125	Centre frequency Hz 250 500 1K 2K				4K	8K
1207	**8**	**–1**	**1**	**1**	**–9**	**–17**	**–28**	**–40**
1607	**10**	**–1**	**1**	**1**	**–8**	**–17**	**–29**	**–33**
2010	**10**	**–1**	**3**	**0**	**–9**	**–17**	**–27**	**–40**
2510	**7**	**–1**	**3**	**0**	**–7**	**–18**	**–28**	**–41**
3115	**13**	**2**	**3**	**–1**	**–8**	**–17**	**–29**	**–27**
4020	**13**	**2**	**3**	**–1**	**–7**	**–16**	**–28**	**–43**
5020	**7**	**3**	**2**	**0**	**–6**	**–16**	**–19**	**–17**
6320	**7**	**3**	**2**	**0**	**–8**	**–16**	**–20**	**–17**

Sound attenuation

Sound attenuation ΔL [dB] including end reflection.

Size	63	125	Centre frequency Hz 250 500 1K 2K				4K	8K
1207	**19**	**14**	**5**	**3**	**2**	**1**	**2**	**1**
1607	**16**	**12**	**4**	**1**	**2**	**1**	**2**	**2**
2010	**12**	**8**	**4**	**2**	**3**	**2**	**2**	**2**
2510	**12**	**8**	**5**	**2**	**1**	**1**	**1**	**1**
3115	**11**	**8**	**3**	**2**	**1**	**1**	**2**	**2**
4020	**9**	**6**	**1**	**1**	**1**	**1**	**1**	**1**
5020	**6**	**4**	**1**	**1**	**1**	**1**	**1**	**1**
6320	**5**	**3**	**1**	**1**	**0**	**0**	**0**	**1**

Nearzone



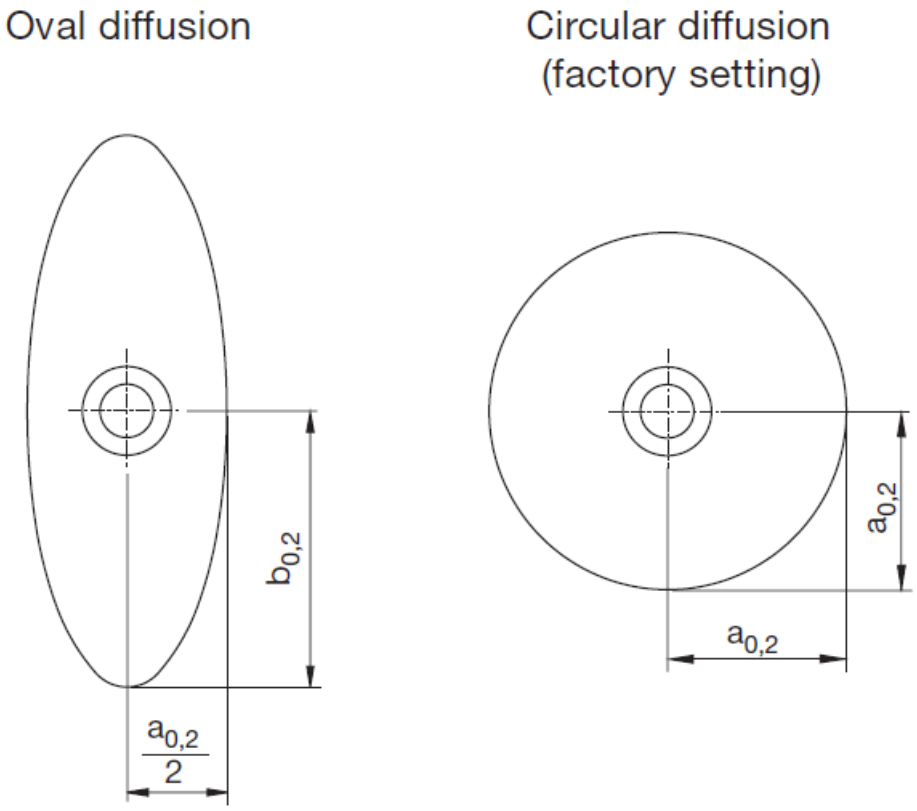
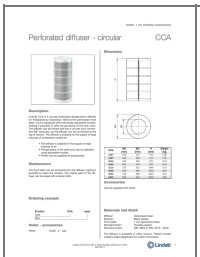


Table 1 Correction of the near zone (a0.2, b0.2)

Under- temperature Ti – Tr	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

Documents / Resources

	Lindab CCA Circular Perforated Diffuser [pdf] User Manual CCA, Circular Perforated Diffuser, CCA Circular Perforated Diffuser