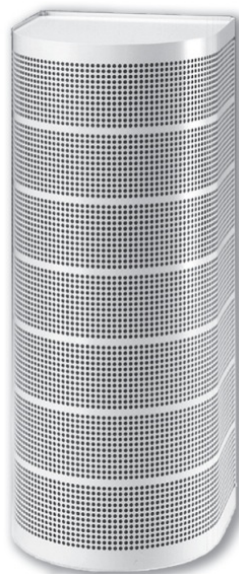


Lindab CHA Semicircular Perforated Diffuser User Manual

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**Perforated diffuser – semicircular
CHA**



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Description

Comdif CHA is a semicircular perforated displacement diffuser for installation against a wall or column. Behind the perforated front plate, CHA 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.
- Duct covers, plinths, and wall brackets 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.

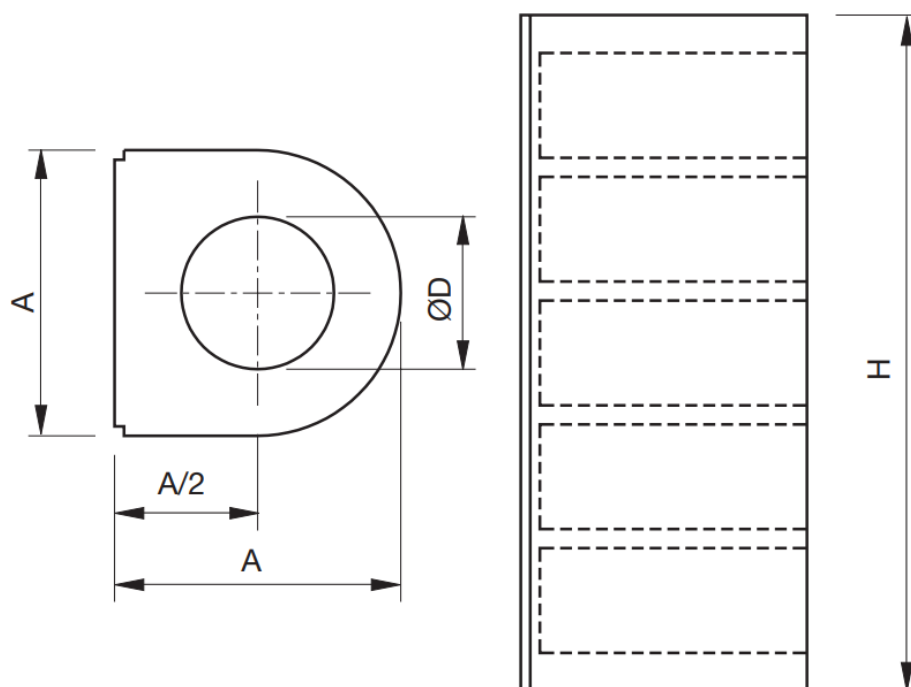
Order code

Product	CHA	aaaa
Type		
Size		

Order – accessories

Cover:	CHAZ – 0 – size
Plinth:	CHAZ – 2 – size
Wall bracket:	CHAZ – 3 – size

Dimension



Size	A mm	ØD mm	H mm	Weight kg
1207	250	125	710	6,50
1607	300	160	710	7,50
2010	330	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

Accessories

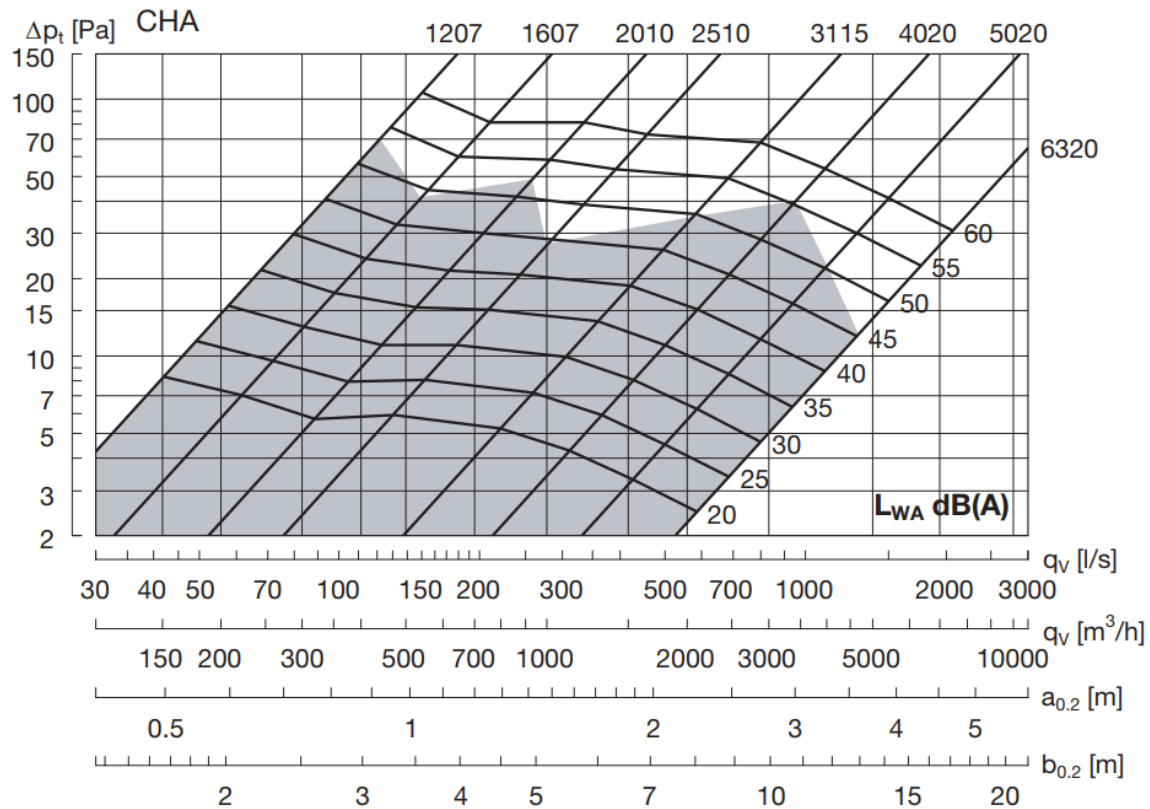
Can be supplied with duct cover, plinth, and bracket for wall mounting.

Materials and finish

Diffuser:	Galvanised
Nozzles:	Black
Front plate:	1 mm galvanized steel
Standard finish:	Powder-coated
Standard color:	RAL 9003 or RAL 9010 – white, gloss30

The diffuser is available in other colors. 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 $L_W [dB] = L_{WA} + K_{ok}$

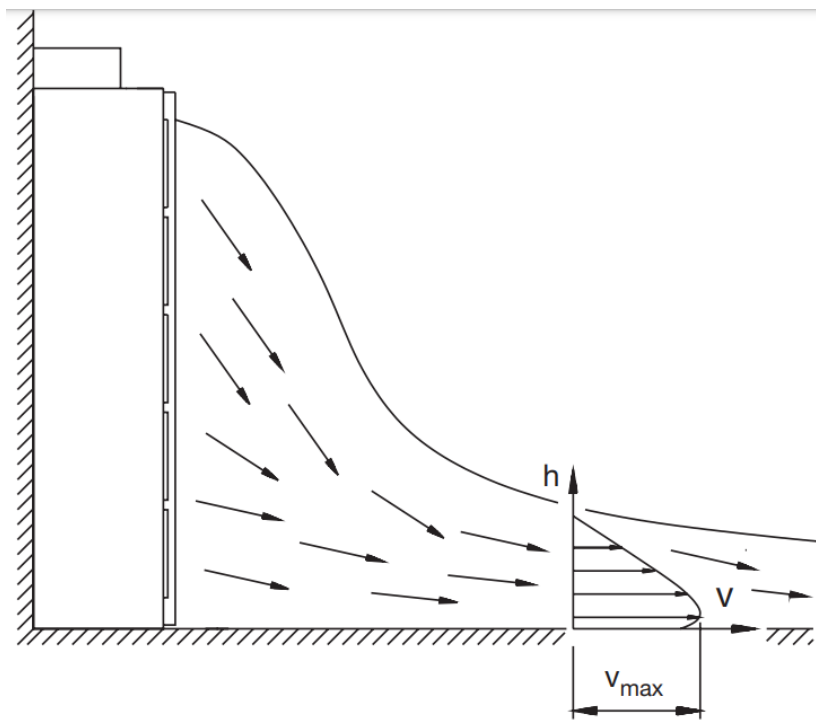
Center frequency Hz								
Size	63	125	250	500	1K	2K	4K	8K
1207	11	-4	1	1	-9	-16	-28	-34
1607	9	-2	2	0	-8	-16	-28	-34
2010	10	-2	3	0	-7	-16	-28	-39
2510	11	0	4	-2	-7	-15	-27	-37
3115	13	1	3	-1	-7	-17	-29	-42
4020	7	3	2	-1	-5	-14	-19	-14
5020	7	3	2	0	-6	-16	-19	-17
6320	7	3	2	0	-6	-16	-29	-17

Sound attenuation

Sound attenuation $\Delta L [dB]$ including end reflection.

Centre frequency Hz								
Size	63	125	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	7	5	0	1	1	1	1	2
6320	5	3	1	1	0	0	0	0

Nearzone



Small diffusion

Large diffusion
(factory setting)

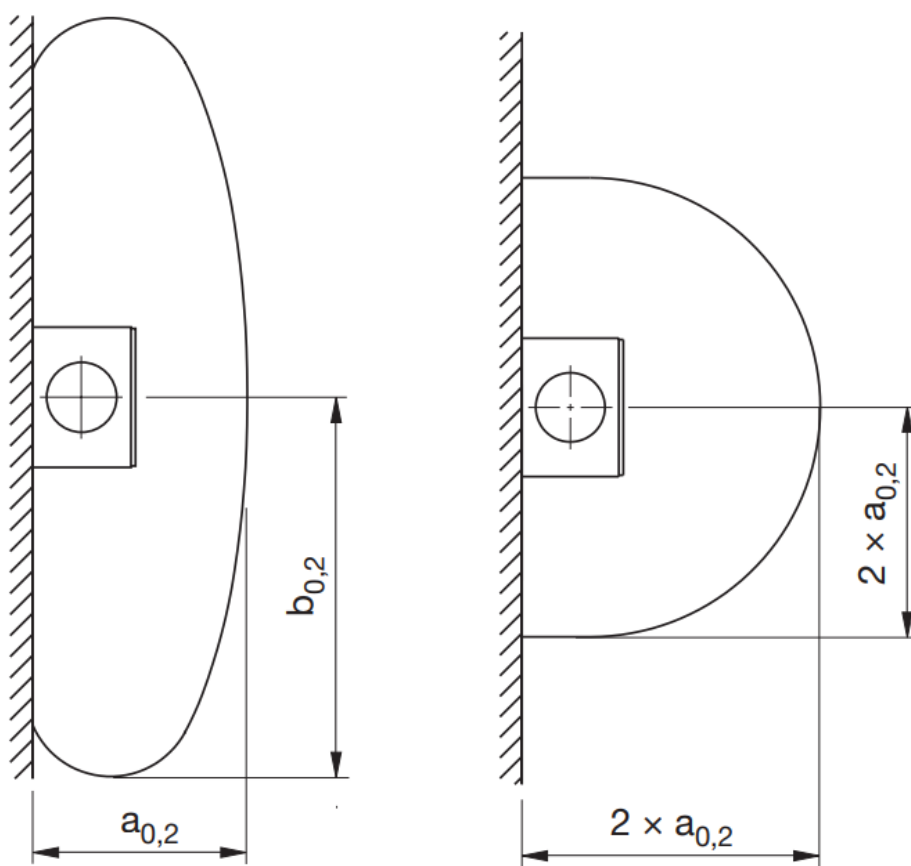


Table 1
Correction of the near zone ($a_{0,2}$, $b_{0,2}$)

Under- temperature Ti-Tr	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	0.10
	0.25	0.12	0.12
	0.30	0.15	0.15
	0.35	0.17	0.17
	0.40	0.20	0.20



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2021-01-05

Documents / Resources

	<p>Lindab CHA Semicircular Perforated Diffuser [pdf] User Manual CHA, Semicircular Perforated Diffuser, CHA Semicircular Perforated Diffuser, Perforated Diffuser, Diffuser</p>
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