# Perforated diffuser - rectangular





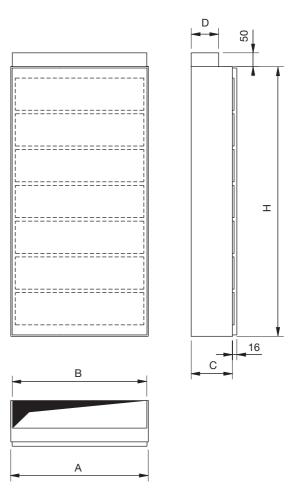
### Description

Comdif CRA is a rectangular perforated displacement diffuser for installation against a wall or column. CRA has a rectangular connection and therefore has a limited depth, making it ideal for installation in premises where a discrete appearance is required. Behind the perforated front plate, CRA 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 rectangular duct connection, so the diffuser can be connected at the top or bottom. The connection duct CRAZ with a circular connection is available as an accessory. 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 connections and 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.



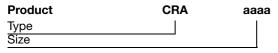
ĺ		Α	В	С	D	н	Weight
	Size	mm	mm	mm	mm	mm	kg
	3010	300	278	150	98	980	10,0
	5010	500	478	150	98	980	17,0
	8010	800	778	150	98	980	27,0
	8020	800	778	250	198	2020	32,0

#### Accessories

**Dimensions** 

Can be supplied with duct connection and plinth.

# Order code



#### Order - accessories Connection duct: CRAZ - 1 - size

Plinth: CRAZ - 1 - size

# Materials and finish

alvanised steel
ack plastic
5 mm galvanised steel
owder-coated
AL 9010 - white, gloss 30

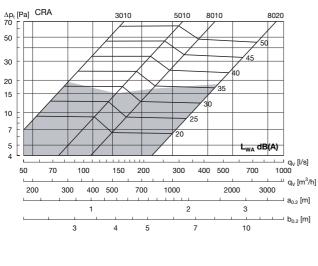
The diffuser is available in other colours. Please contact Lindab's sales department for further information.



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# **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] =  $L_{WA}$  +  $K_{ok}$ 

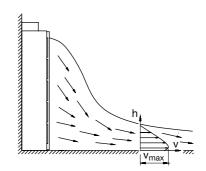
	Centre frequency Hz								
Size	63	125	250	500	1K	2K	4K	8K	
3010	9	-1	5	-1	-11	-17	-30	-41	
5010	7	1	4	0	-11	-19	-32	-42	
8010	15	0	4	0	-12	-20	-31	-43	
8020	10	4	6	-2	-11	-21	-33	-39	

## **Sound attenuation**

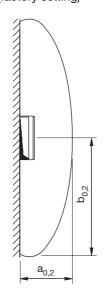
Sound attenuation  $\Delta L$  [dB] including end reflection.

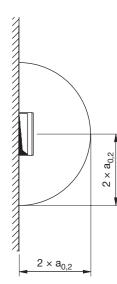
	Centre frequency Hz								
Size	63	125	250	500	1K	2K	4K	8K	
3010	11	7	6	4	2	2	1	2	
5010	10	6	6	4	2	2	1	2	
8010	10	6	4	3	2	1	1	1	
8020	7	4	3	2	1	1	1	1	

# Nearzone



Large diffusion (factory setting)





Small diffusion

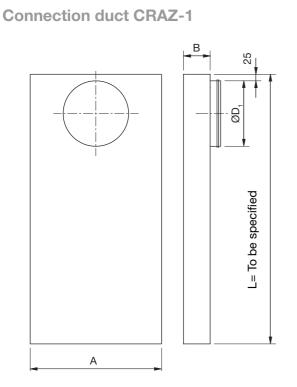
# Table 1 Correction of the near zone $(a_{0.2}, b_{0.2})$

Under- temperature	Maximum velocity	Mean velocity	Correction factor
T <sub>i</sub> -T <sub>r</sub>	m/s	m/s	
	0.20	0.10	1.00
	0.25	0.12	0.80
-3K	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

Accessories

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	Α	В	ØD <sub>1</sub>	Weight
Size	mm	mm	mm	kg/m
3010	280	100	200	5,0
5010	480	100	250	7,0
8010	780	100	315	9,0
8020	780	200	400	11,0

## Order code

Connection o	luct CRA	Z-1	aaaa	bb	bbbb		
Туре							
Size							
Length	According to dimensions in mm L=max. 2,000 mm						
Connection	Front Back (Standard)	C 1	)				



CRA