

# Rotating ceiling diffuser

# LCR4



## Description

LCR4 is a ceiling-mounted air exhaust diffuser, which can be used to advantage in clean rooms where you don't want to equip exhaust diffusers with HEPA filters. In addition, the diffuser can be used to supply air in connection with centrally located HEPA filters. LCR4 ensures a sealed ceiling and diffuser solution for the pressure regulation of rooms.

LCR4 is available in two sizes and with different duct connections. The diffuser can also be adapted for the most popular ceiling systems with reference to the order code. Visually, the diffuser looks like type LCR1. The diffuser is equipped with a rotating front plate, which is attached by wire springs, ensuring easy installation and removal of the base plate for cleaning purposes.

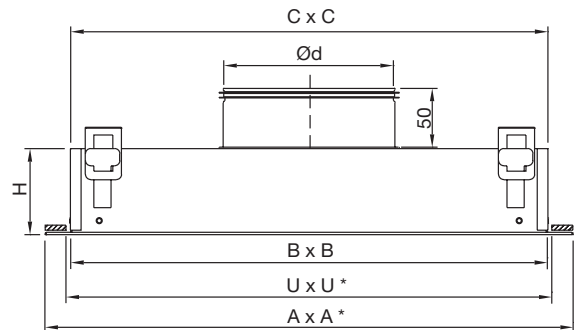
- Can be supplied adapted for ceilings with reference to the order code
- Visually identical to LCR1
- Airtight box with sealed design
- Mounting brackets supplied as standard
- Can be attached using a wire mounting (pendants) for standard ceiling systems
- The front plate can be swung downwards without having to be removed.

## Materials and finish

Material: Galvanised steel  
 Standard finish: Powder-coated  
 Standard colour: RAL 9010 or 9003, gloss 30

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

## Dimensions



\*) measure

Size	H	A	B	C	U	m
mm	mm	mm	mm	mm	mm	kg
400	100	415	360	325	365	3.1
600	100	615	560	525	565	6.0

## Duct connection

Air pattern	Ød
mm	mm
400-300	160
400-400	200
600-400	200
600-500	250
600-600	315

## Order (size 400)

<b>Product</b>	<b>LCR4</b>	<b>400</b>	<b>F</b>	<b>aaa</b>
Type				
Size				
Fixed ceiling				
Air pattern (300, 400)				

## Order (size 600)

<b>Product</b>	<b>LCR4</b>	<b>600</b>	<b>a</b>	<b>bbb</b>
Type				
Size				
<b>ceiling</b>				
F = Fixed ceiling				
T = Visible T-rail				
C = Clip-In (bevelled)				
A = Other ceiling type*				
Air pattern (400, 500, 600)				

\* Indicated in plain text.

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## Technical data

### Capacity

Volume flow  $q_v$  [l/s] and [m<sup>3</sup>/h], total pressure drop  $\Delta p_t$  [Pa] and sound effect level  $L_{WA}$  [dB(A)] can be seen in the diagram below.

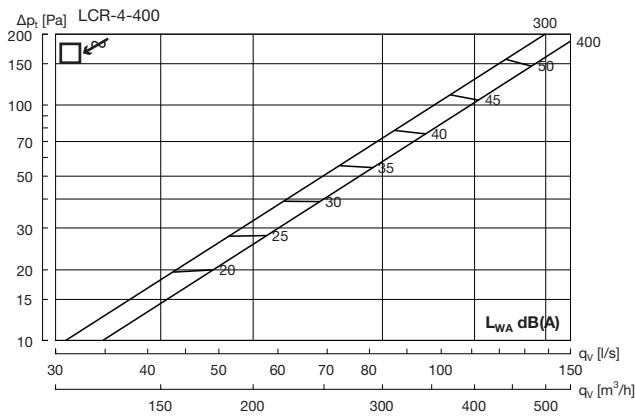
### Frequency-related sound effect level

The sound effect level in the frequency band is defined as  $L_{wok} = L_{WA} + K_{ok}$ . The values for  $K_{ok}$  are specified in charts beneath the diagram below.

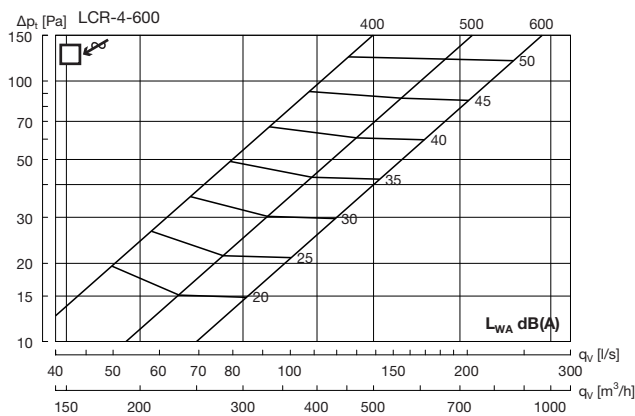
## Sound attenuation

The diffuser's sound attenuation function from duct to room, including end reflection.

Size	Mean frequency Hz							
	63	125	250	500	1K	2K	4K	8K
400-300	19	12	7	1	6	2	4	5
400-400	16	9	4	4	6	2	3	5
600-400	15	10	3	3	2	1	4	6
600-500	14	9	2	6	1	2	4	5
600-600	13	9	2	4	2	3	4	7



Size	63	125	250	500	1K	2K	4K	8K
300	4	3	-1	-2	-5	-9	-20	-28
400	6	0	0	-2	-5	-8	-20	-31



Size	63	125	250	500	1K	2K	4K	8K
400	6	0	3	-3	-5	-11	-19	-30
500	5	1	3	-2	-6	-11	-22	-32
600	3	1	-1	-1	-5	-10	-20	-35

## Ceiling adjustment

LCR4 in size 600 is suitable for installation in several different types of ceiling system. Read more about this in the ceiling adjustment section.