

# Plain circular diffuser

# LCAN



## Description

LCAN is a circular diffuser with an unperforated face plate. LCAN can be used for both supply and extract air and is suitable for the horizontal supply of cooled air.

Installing a LCAN diffuser with a plenum box type MB can help to achieve a stable airflow to the diffuser as well as realise the potential for individual adjustment.

Damper type B is an unique linear cone damper which allows to use the full operational area (0-100%) and allows to balance with a high pressure loss over the box with low sound generation. Furthermore the construction of the damper gives an accurate and reliable measurement.

Damper type C and E are with rotating blade dampers for respectively supply and extract. Typically used in applications that don't require a high balancing pressure in the plenum box

- Suitable for both supply and exhaust air.
- Suitable for the horizontal supply of cooled air.
- Plenum box with several damper options

## Maintenance

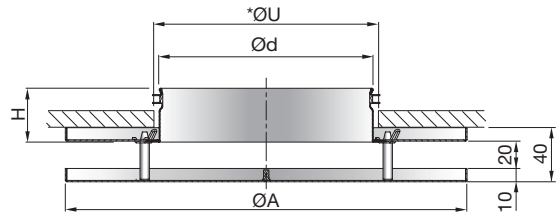
The face plate can be removed to enable cleaning of internal parts or to gain access to the duct or box. The visible parts of the diffuser can be wiped with a damp cloth.

## Order code

<b>Product</b>	LCAN	aaa	b
<b>Type</b>	LCAN		
<b>Connection dim. Ød</b>	Ø100-400		
<b>Material</b>	G - Galvanized steel S - Stainless steel		

Example: LCAN-200-G

## Dimensions



LCAN Ød [mm]	ØA [mm]	H [mm]	*ØU [mm]	Free area A [m <sup>2</sup> ]	m [kg]
100	240	40	110	0,009	0,8
125	240	40	135	0,0099	0,8
160	300	40	170	0,01485	1,2
200	360	40	210	0,0207	1,7
250	460	60	260	0,027	2,7
315	540	60	325	0,0333	3,6
400	540	80	410	0,0333	3,7

\*ØU = Cutout dimension (Ød + 10 mm).

## Materials and finish:

- Standard material: Galvanised steel (G) or Stainless steel (S)
- Standard finish: Powder coated
- Standard colour: RAL 9003 and RAL 9010, gloss 30

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

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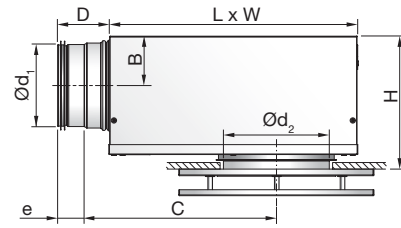
## Technical data

Following LCAN+plenum box data are valid for MBB-S/-E.  
For MBC and MBE data, go to [www.lindQST.com](http://www.lindQST.com).

## Quick selection, supply air

LCAN + MBB-S		$\Delta p_t = 50 \text{ Pa}$ 30 dB(A)		$\Delta p_t = 50 \text{ Pa}$ 35 dB(A)	
duct	LCAN	l/s	m <sup>3</sup> /h	l/s	m <sup>3</sup> /h
$\varnothing d_1$	$\varnothing d_2$				
100	100	25	90	29	104
100	125	32	115	38	137
100	160	36	130	44	158
125	125	38	137	45	162
125	160	48	173	56	202
125	200	55	198	64	230
160	160	54	194	63	227
160	200	67	241	78	281
160	250	79	284	93	335
200	200	68	245	82	295
200	250	87	313	102	367
200	315	113	407	134	482
250	250	102	367	122	439
250	315	118	425	140	504
250	400	125	450	148	533
315	315	127	457	155	558
315	400	123	443	148	533

## LCAN + MB plenum box

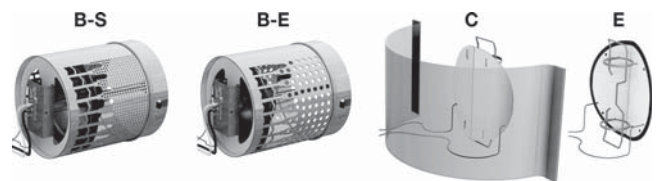


$\varnothing d_1$	$\varnothing d_2$	B	C	D	e	H*	L	W
[mm]		[mm]						
100	100	62	245	78	40	163 - 173	310	260
100	125	62	245	78	40	163 - 173	310	260
100	160	62	245	78	40	163 - 173	310	260
125	125	75	291	78	40	188 - 198	376	310
125	160	75	291	78	40	188 - 198	376	310
125	200	75	291	78	40	188 - 198	376	310
160	160	92	352	78	40	222 - 232	459	380
160	200	92	352	78	40	222 - 232	459	380
160	250	92	352	78	40	222 - 252	459	380
200	200	112	425	78	40	263 - 293	565	460
200	250	112	425	78	40	263 - 293	565	460
200	315	112	425	78	40	263 - 293	565	460
250	250	137	514	118	60	313 - 343	698	540
250	315	137	514	118	60	313 - 343	698	540
250	400	137	514	118	60	313 - 363	698	540
315	315	170	675	118	60	378 - 408	858	540
315	400	170	675	118	60	378 - 428	858	540

\* Using accessory MBZ the H dimension will increase:

- $\varnothing d_2 = 125 - 200 \text{ mm} \Rightarrow H + 40 \text{ mm}$
- $\varnothing d_2 = 250 - 315 \text{ mm} \Rightarrow H + 60 \text{ mm}$
- $\varnothing d_2 = 400 \text{ mm} \Rightarrow H + 80 \text{ mm}$

## Damper options



## Order code

<b>Product</b>	<b>MB</b>	<b>a</b>	<b>bbb</b>	<b>ccc</b>	<b>d</b>
<b>Type</b>	MB				
<b>Damper</b>	B = Linear cone damper C = Blade damper supply E = Blade damper extract				
<b>Duct connection <math>\varnothing d_1</math></b>	$\varnothing 100-315$				
<b>Diffuser dimension <math>\varnothing d_2</math></b>	$\varnothing 100-400$				
<b>Function (Only for B damper)</b>	S = Supply air      E = Extract				

Example 1: LCAN-200-G+MBB-160-200-S

Example 2: LCAN-200-S+MBC-125-200

## Accessories

### MBZ - Extension piece



### Order code - MBZ

<b>Product</b>	<b>MBZ</b>	<b>aaa</b>
<b>Type</b>	MBZ	
<b>Size <math>\varnothing d</math></b>	$\varnothing 100-400$	

Example: MBZ-200