Plenum box

CBC/CBE

Description

CBC/CBE is a plenum box for supply (CBC) and extract air (CBE), intended to achieve a stable airflow into diffusers, air flow measurement and balancing and also to attenuate sound from the duct system.
CBC/CBE is available with two damper options and has small overall dimensions to ease up installation and handling.

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.
The distribution filter is standard in the CBC box (supply version).

- Small dimensions and simplified installation.
- High capacity and low sound.
- Two damper options.

Order Code

Product	CB	a	bbb	ccc

Type
CB

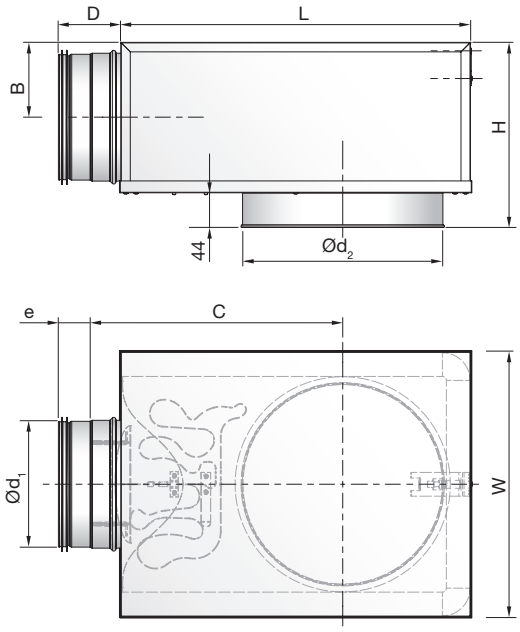
Damper
C = Blade damper supply
E = Blade damper extract

Duct connection Ød$_1$
Ø100-315

Diffuser connection Ød$_2$
Ø125-400

Example: CBC-160-250

Dimensions



Ød$_1$	Ød$_2$	B	C	D	e	H	L	W	m
mm					mm				kg
100	125	65	213	78	40	175	273	209	1.4
100	160	65	231	78	40	175	308	244	1.6
125	160	78	250	78	40	200	327	244	1.9
125	200	78	270	78	40	200	367	284	2.3
160	200	95	295	78	40	234	392	284	2.6
160	250	95	320	78	40	234	442	334	3.1
200	250	115	345	78	40	274	467	334	3.6
200	315	115	377	78	40	274	532	399	4.3
250	315	140	423	118	60	325	558	399	6.5
250	400	140	466	118	60	325	643	484	8.6
315	400	173	536	118	60	390	714	484	9.8

The CBC/CBE plenum box is as standard recommended with the following Lindab ceiling diffusers:

PKA, PCA, LKA, LCA, LCP, LKP, LCC and NQ19.

Follow diffuser links above for easy configuration in LindQST´s airborne calculator.

It is possible to use the CBC/CBE with other diffusers.

Maintenance

The damper can be removed in connection with cleaning of the internal parts of the connection duct.

Materials and finish

Material:	Galvanized steel
Standard Colour:	Galvanized steel

The plenum box is available in other colours. Please contact Lindab's sales department for futher information.

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Technical data

Sound attenuation ΔL

Sound attenuation ΔL for CBC/CBE + diffuser from duct to room, including end reflection, see example in table below.

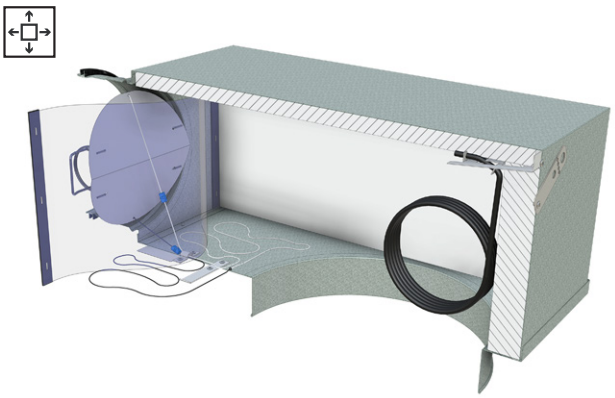
For detailed CBC and CBE data with diffusers, go to LindQST and find the relevant diffuser in the airborne calculator. Sound attenuation values for the chosen diffuser and plenum box variants can be found here.

Example in table below.
Sound attenuation ΔL for CBC + LCP diffuser.

LCP + CBC		Sound attenuation ΔL [dB]							
Duct	LCP	Centre frequency Hz							
$Ød_1$	$Ød_2$	63	125	250	500	1K	2K	4K	8K
100	125	25	18	16	11	17	20	13	14
100	160	25	11	14	13	16	16	12	11
125	160	22	13	13	14	17	17	11	13
125	200	20	17	14	14	17	14	11	12
160	200	18	10	13	14	17	14	12	10
160	250	23	12	14	14	15	13	11	10
200	250	23	8	12	15	16	13	14	11
200	315	20	9	12	14	15	11	12	10
250	315	17	9	11	16	16	11	11	7

CB + damper

CBC



CBE