



Lindab CBC Plenum Box Installation Guide

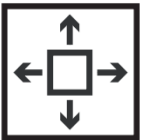
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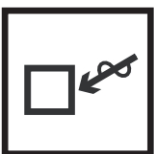


Symbols

- Supply air



- Extract air



- Open damper



- Closed damper



- No tools – Magnet



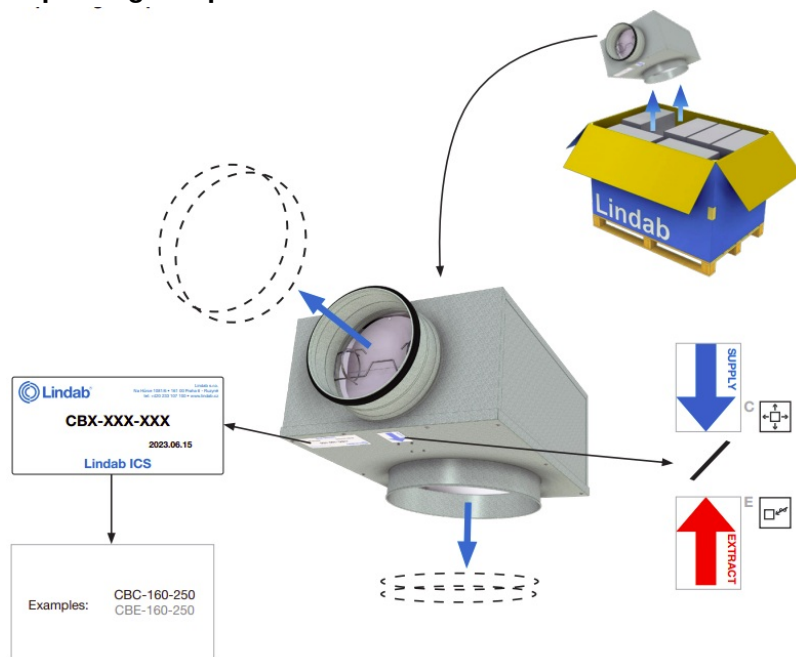
- Lock



- Unlock

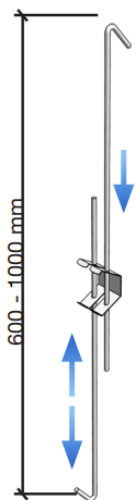


Unpacking and protection of CBC/CBE



Accessories

- MHS



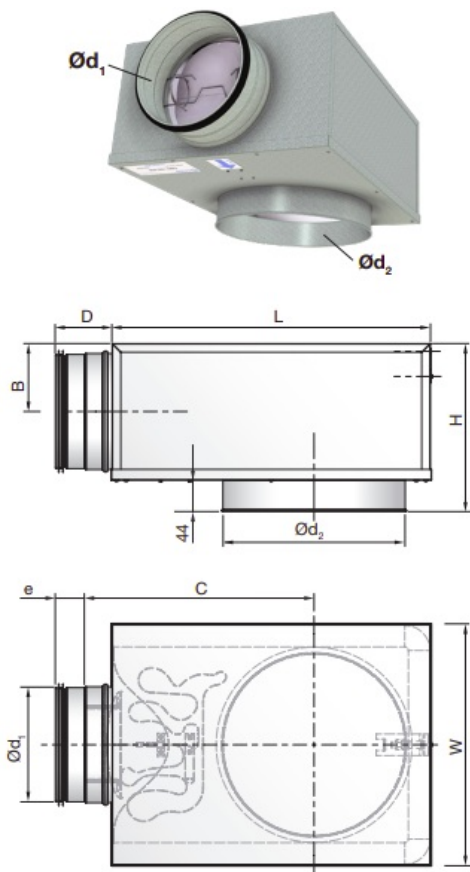
- **M8**



- **PC410**

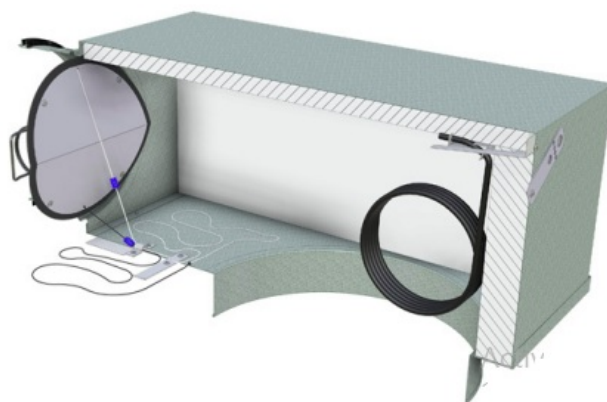
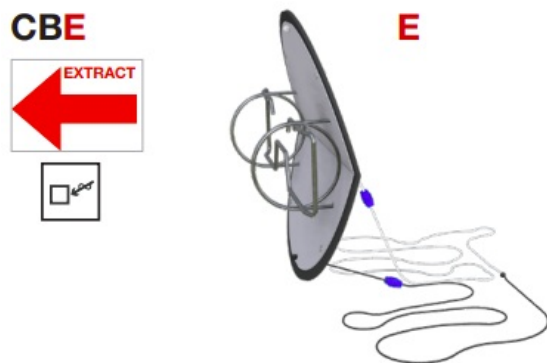
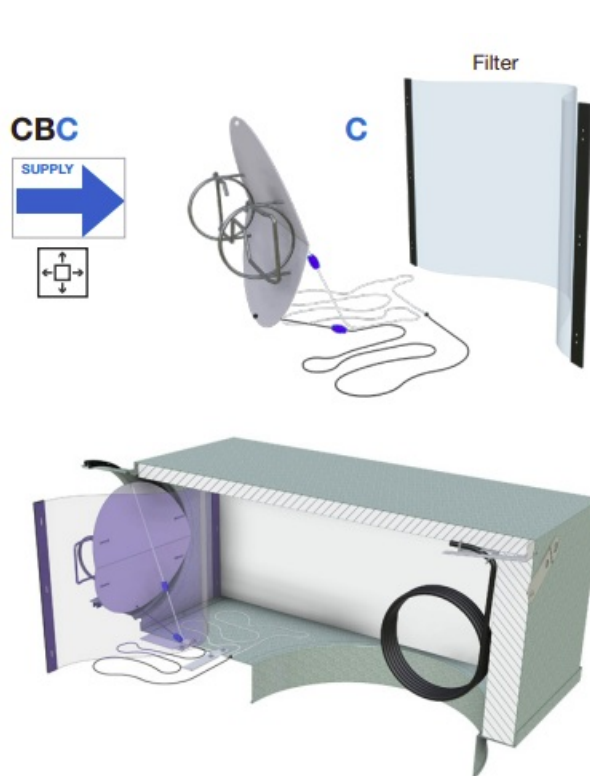
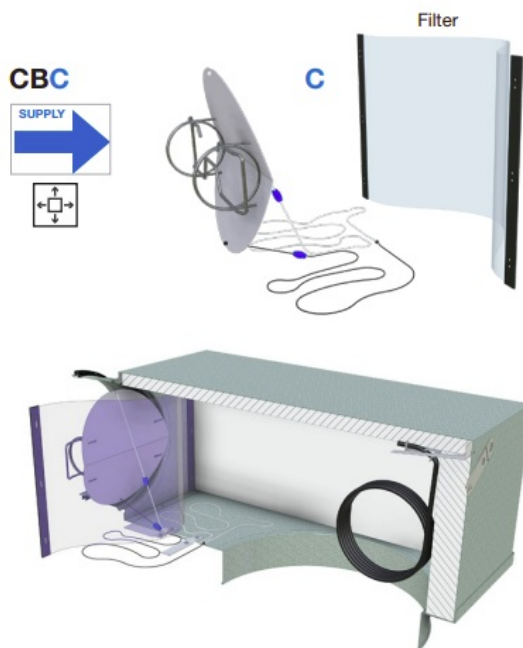


Dimensions

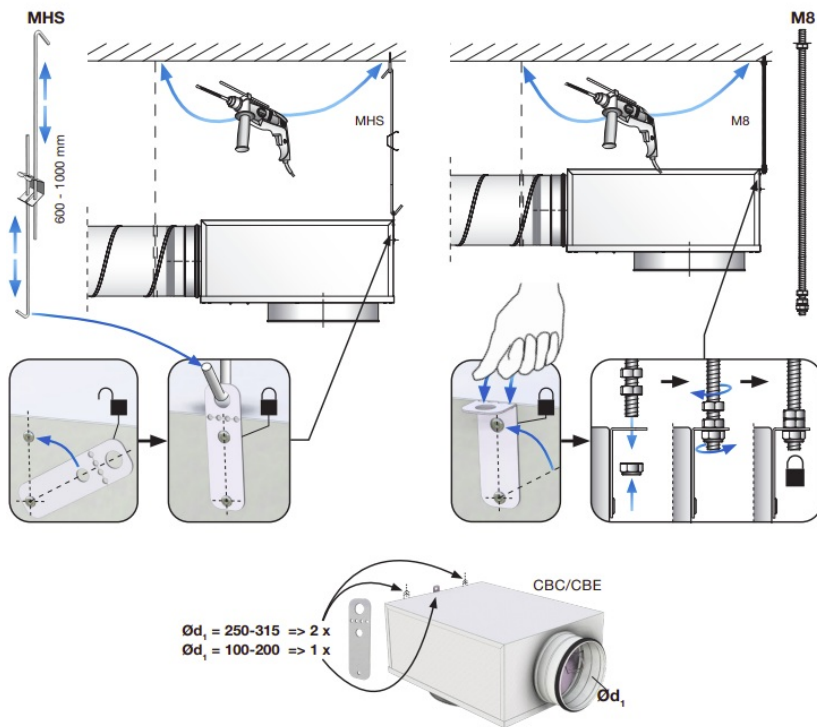


Ød1	Ød2 mm	B	C	D	emm	H	L	W	mkg
100	125	65	213	78	40	175	273	209	1.4
100	160	65	231	78	40	175	308	244	1.6
125	160	78	250	78	40	200	327	244	1.9
125	200	78	270	78	40	200	367	284	2.3
160	200	95	295	78	40	234	392	284	2.6
160	250	95	320	78	40	234	442	334	3.1
200	250	115	345	78	40	274	467	334	3.6
200	315	115	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

Damper options



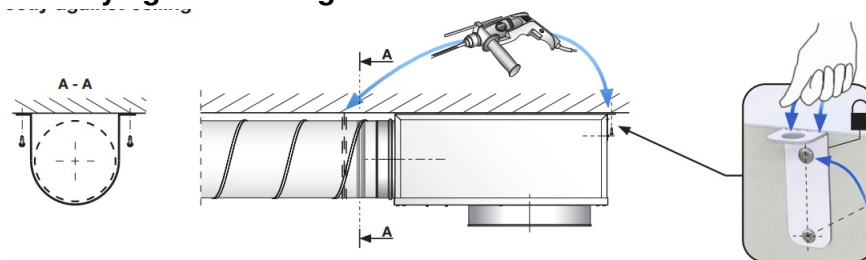
Mounting of CBC/CBE
Accessory MHS
Threaded rod M8



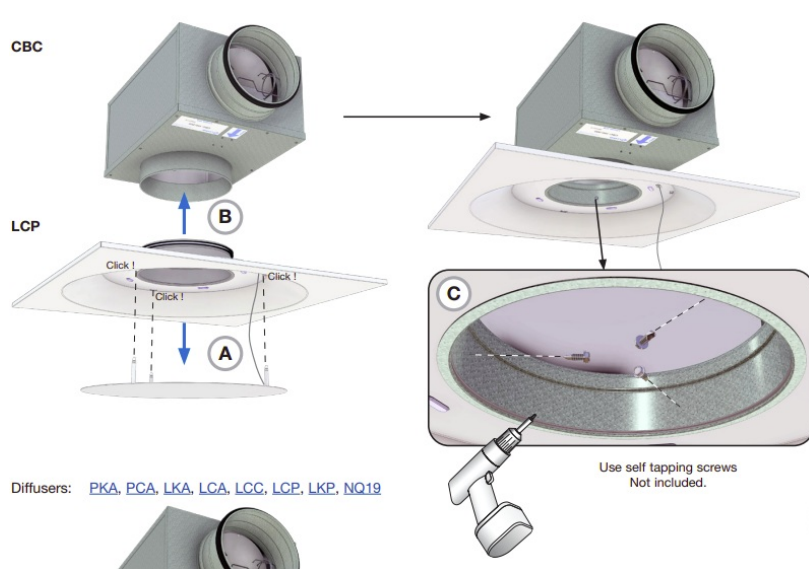
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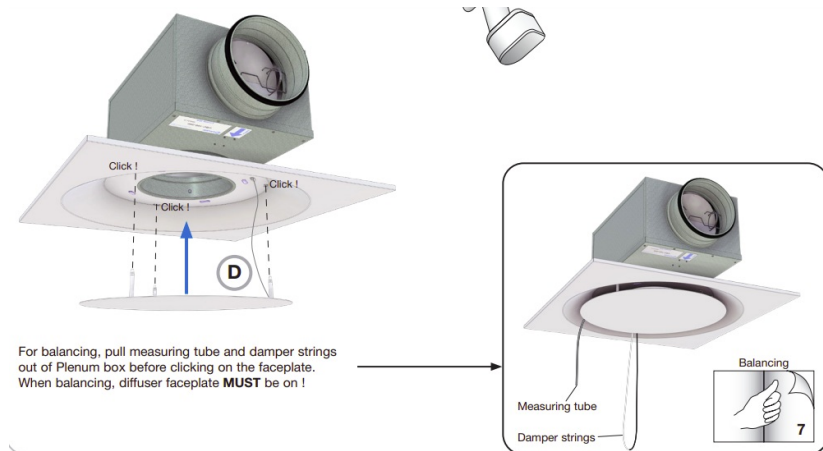
Directly against ceiling



Mounting of diffuser in CBC/CBE

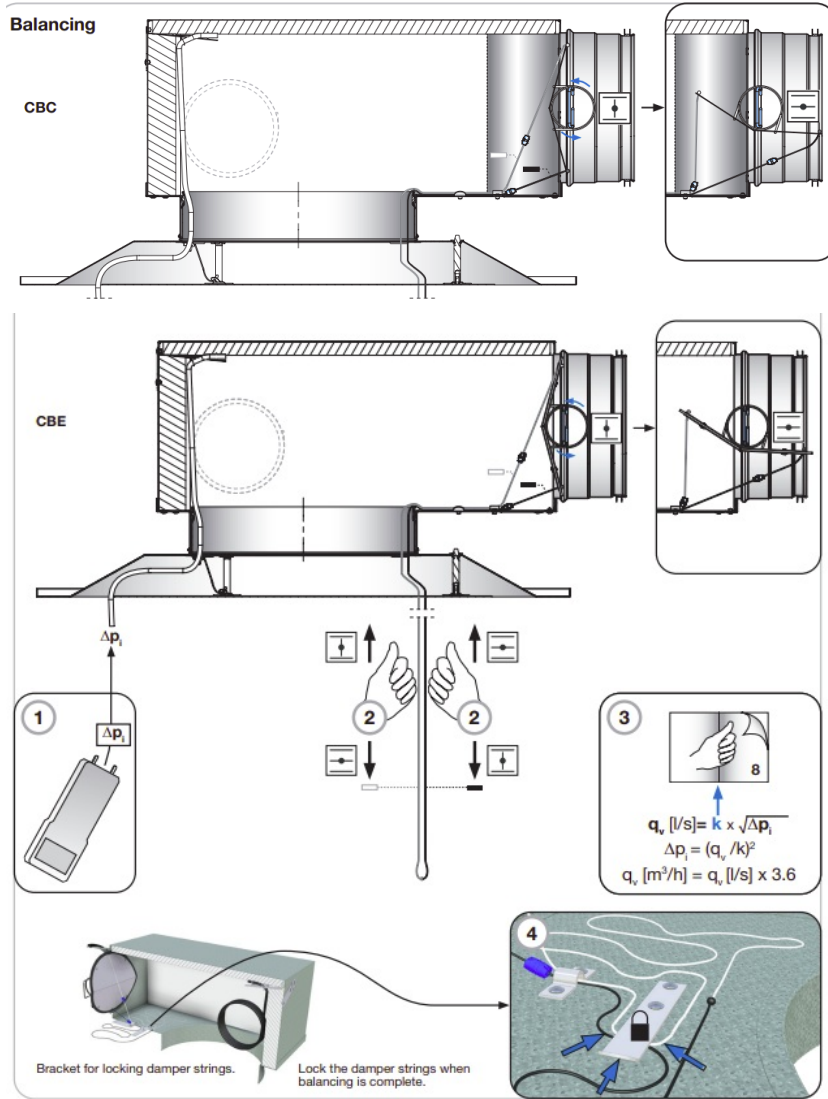


Diffusers: PKA, PCA, LKA, LCA, LCC, LCP, LKP, NO19



Use self tapping screws Not included

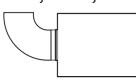
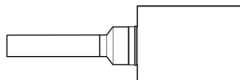
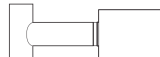
Balancing



k-factors for ceiling diffusers + CBC

Supply air

CBC SUPPLY			PCA	PKA	FormoLCA	LKA	Integra LCC/LCP LKP		NQ19
	SUPP LY								
CBC-100-125			9.92	9.80	9.37	9.19	8.64	8.18	—
CBC-100-160			11.64	11.87	10.87	11.44	10.75	10.65	11.06
CBC-125-160			14.66	14.82	12.88	13.78	12.77	12.32	10.94
CBC-125-200			16.96	18.09	14.58	17.06	15.71	15.19	17.82
CBC-160-200			21.39	22.90	17.32	20.65	18.26	17.31	17.57
CBC-160-250			25.98	25.83	22.85	24.19	20.63	21.58	23.38
CBC-200-250			30.91	30.33	26.29	28.23	23.44	24.60	25.17
CBC-200-315			42.64	43.58	33.31	36.78	28.17	29.48	32.24
CBC-250-315			43.04	43.50	32.23	35.99	27.66	28.60	36.90
CBC-250-400			55.65	55.44	35.25	41.35	—	—	41.78
CBC-315-400			62.89	70.18	35.72	43.74	—	—	44.33

Supply				
Diffuser	Straight duct SR 	Bend BKU, BU, BSU 	Expansion RCFU 	T-piece + min. 2xD* TCPU 
LCC / LCP / LKP / NQ19	±5	±7,5%	±7,5%	±10,0%
LCA / LKA	15	47.5%	57.5%	10.0%
PCA/PKA	7.5	10.0%	10.0%	12.5%

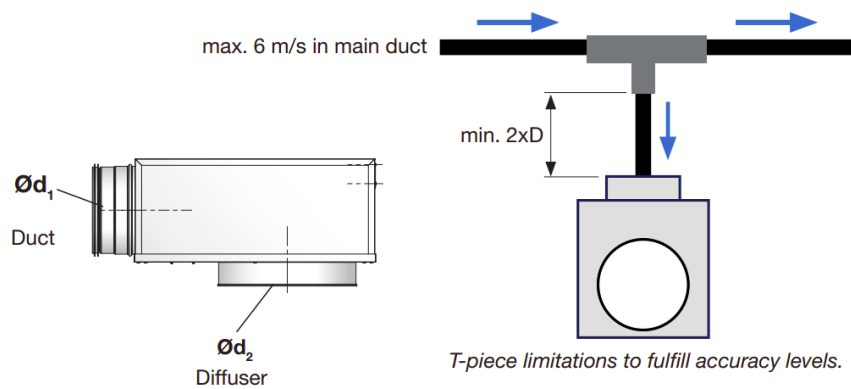
To fulfill the above-mentioned accuracy levels, the min. air speed at the diffuser connection (Ød2) of the plenum box should be 1.2 m/s, which corresponds to the following min. air flow for different sizes

Diffuser connection $\text{Ø}d_2$	min. Air flow
mm	l/s
125	15
160	24
200	38
250	59
315	94
400	151

To fulfill accuracy for T-piece the following limitations are to be considered.

Between T-piece and plenum box it is recommended to have $2xD$ straight duct, (where D is the duct connection diameter $\text{Ø}d_1$) .

Furthermore, the air speed in main duct should not exceed 6 m/s.



k-factors for ceiling diffusers + CBE

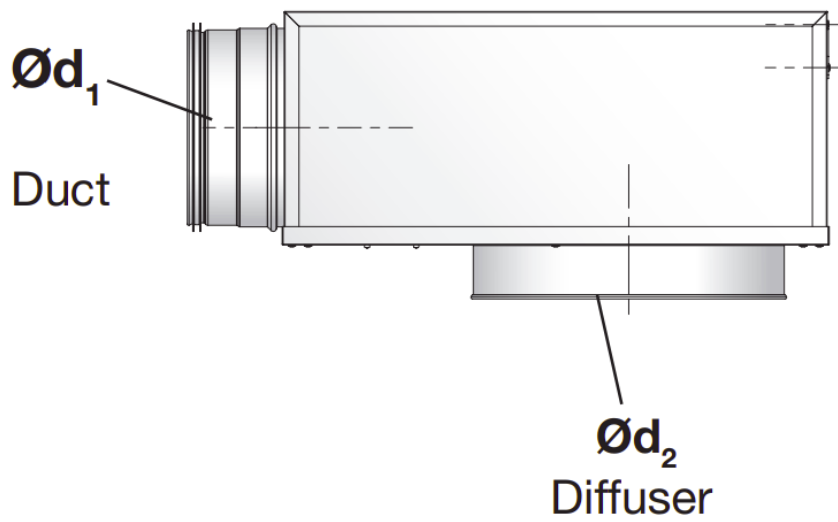
Extract air

CBE 			PCA	FormoPKA	LCA	LKA	Integra LCC/LCP LKP	
EXTRA	CT							
CBE-100-125			27.27	25.38	16.86	16.08	15.83	16.05
CBE-100-160			30.54	45.55	26.52	20.74	20.84	21.03
CBE-125-160			23.68	30.45	20.45	17.99	18.58	20.44
CBE-125-200			42.66	51.88	27.70	27.52	18.39	25.90
CBE-160-200			33.16	33.80	25.23	26.66	19.98	21.85
CBE-160-250			40.15	59.99	34.07	40.18	22.15	25.65
CBE-200-250			42.32	44.98	31.05	35.54	23.58	26.28
CBE-200-315			73.24	83.27	45.47	53.07	29.64	28.99
CBE-250-315			57.35	59.56	38.27	43.60	22.99	28.20
CBE-250-400			114.1	132.61	41.62	47.57	—	—
CBE-315-400			104.11	103.77	40.27	48.54	—	—

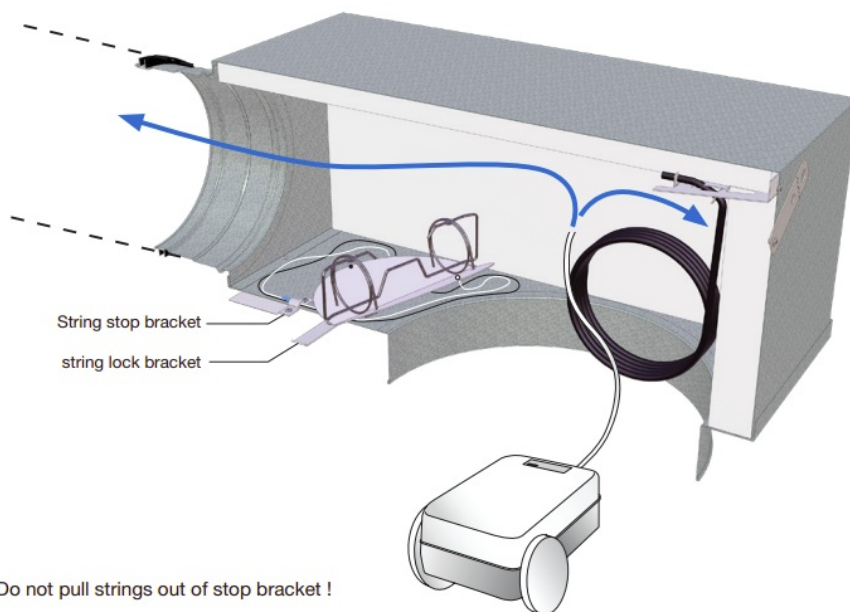
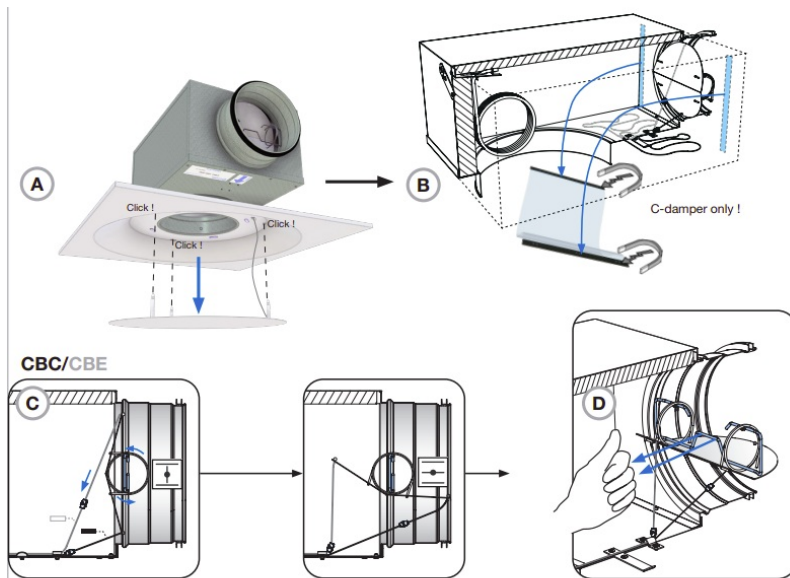
Extract	
Diffuser	All connections
LCC / LCP / LKP	±5%
LCA / LKA	±5%
PCA / PKA	±7.5%

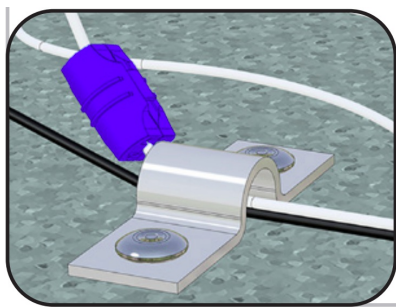
To fulfill the above-mentioned accuracy levels, the min. air speed at the diffuser connection (Ød₂) of the plenum box should be 1.2 m/s, which corresponds to the following min. air flow for different sizes:

Diffuser connection Ød₂	min. Air flow
mm	l/s
125	15
160	24
200	38
250	59
315	94
400	151



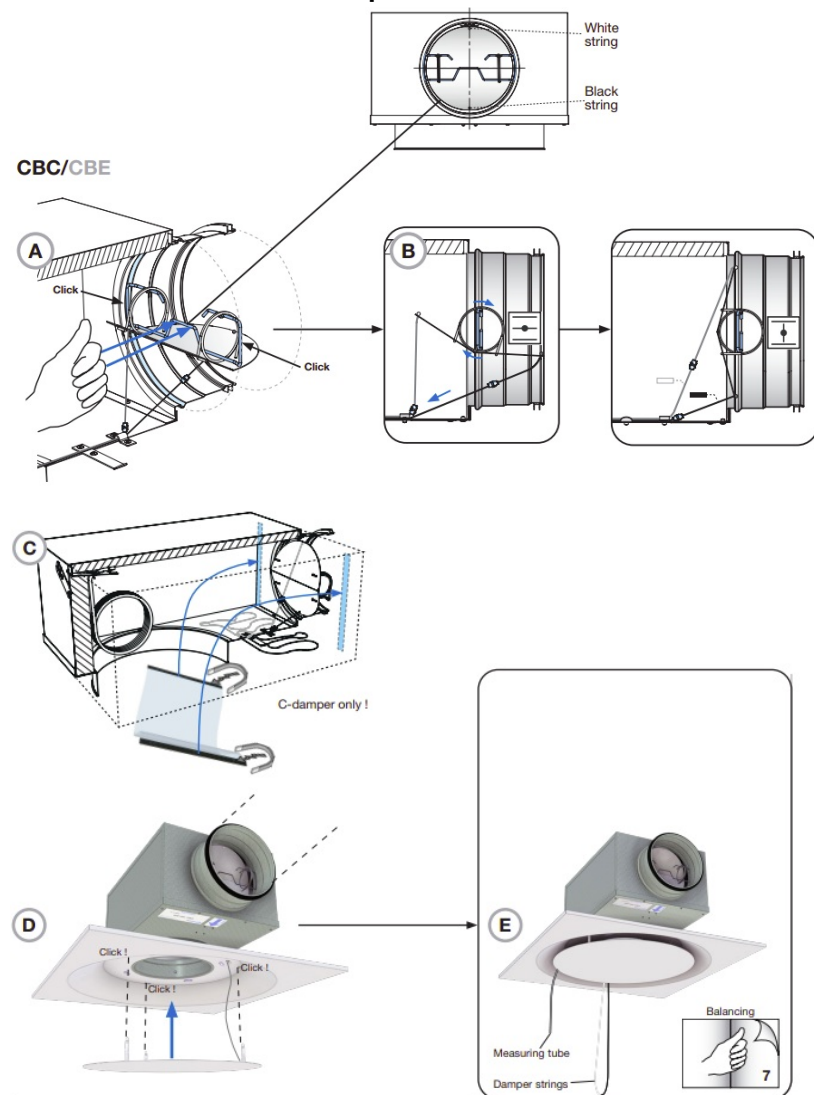
Maintenance





Store the damper in the plenum box

Installation of C- and E-damper



For balancing pull measuring tube and damper strings out of plenum box before clicking on faceplate. When balancing, diffuser faceplate **MUST** be on ! After balancing store strings in box and lock damper strings, see page 7.

Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

office



Documents / Resources

	Lindab CBC Plenum Box [pdf] Installation Guide CBC, CBE, CBC Plenum Box, CBC, Plenum Box, Box
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References

- [Lindab | For a better climate - Lindab](#)
- [Vítejte na stránkách Lindab!](#)
- [User Manual](#)

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