Visible diffuser





Description

LCF is a diffuser with circular unperforated face plate for free hanging installations.

LCF is suitable for horizontal supply of cooled air and handles high airflows as well as low airflows with high undertemperature without the risk of drafts.

LCF includes a unique linear cone damper which makes it possible to regulate in the full airflow range (0-100%) and allows to balance with a high pressure drop over the unit with low sound level (up to 200 Pa).

Furthermore the construction of the damper gives an accurate and reliable measurement.

LCF has a readable K-value scale and has the possibility to be preadjusted before the final balancing.

- Suitable in full airflow range with high undertemperature.
- Unique linear cone damper
- Up to 200 Pa with low sound level
- Accurate and reliable measurement of flow

Maintenance

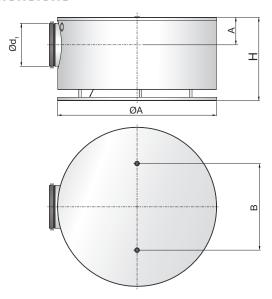
The face plate can be detached and the damper removed to enable cleaning of the internal parts or the duct. The visible parts of the diffuser can be wiped with a damp cloth.

Order code

Product	LCF	aaa	s
Туре			1
LCF			
Connection dim.			
Ød 125-200			
Functional use			
S = Supply air			

Example: LCF-200-S

Dimensions



Ød ₁	ØA	Α	н	В	Weight
mm	mm	mm	mm	mm	kg
125	460	80	241	250	7.0
160	540	97	275	300	10.0
200	660	117	315	400	13.7

Construction



Materials and finish

Material: Galvanised steel Standard finish: Powder-coated

Standard colour: White, RAL 9010, gloss 30 or

white 9003, gloss 30.

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



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LCF

Technical data

Capacity

For complete configuration, go to the $\underline{\mathsf{LindQST}}$ - $\underline{\mathsf{Airborne}}$ calculator.

Frequency-related sound effect level

The sound effect level in the frequency band is defined as $L_{_{WA}} + K_{_{ok}} K_{_{ok}}$ values are given in charts beneath the diagrams on the following pages.

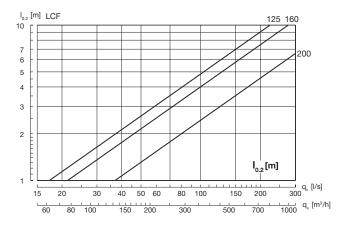
Quick selection

Supply air

	$\Delta p_t \ge$	50 Pa	∆p _t ≥ 50 Pa		
duct	30 dB(A)		35 dB(A)		
Ød ₁	l/s	m³/h	l/s	m³/h	
125	55	198	71	256	
160	76	274	99	356	
200	129	463	154	553	

Throw I_{0,2}

The throw is specified at a terminal velocity of 0.2 m/s.



Sound attenuation

Sound attenuation of the diffusers ΔL from duct to room, including end reflection, see table below.

LCF		Sound attenuation ∆L [dB]						
Duct		Centre frequency Hz						
Ød ₁	63	125	250	500	1K	2K	4K	8K
125	18	15	13	12	12	14	17	18
160	12	10	16	12	13	14	18	19
200	9	10	14	14	12	15	18	19

Balancing

Balancing data is contained in a separate brochure.



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Technical data

