

Perforated wall diffuser

LCR2



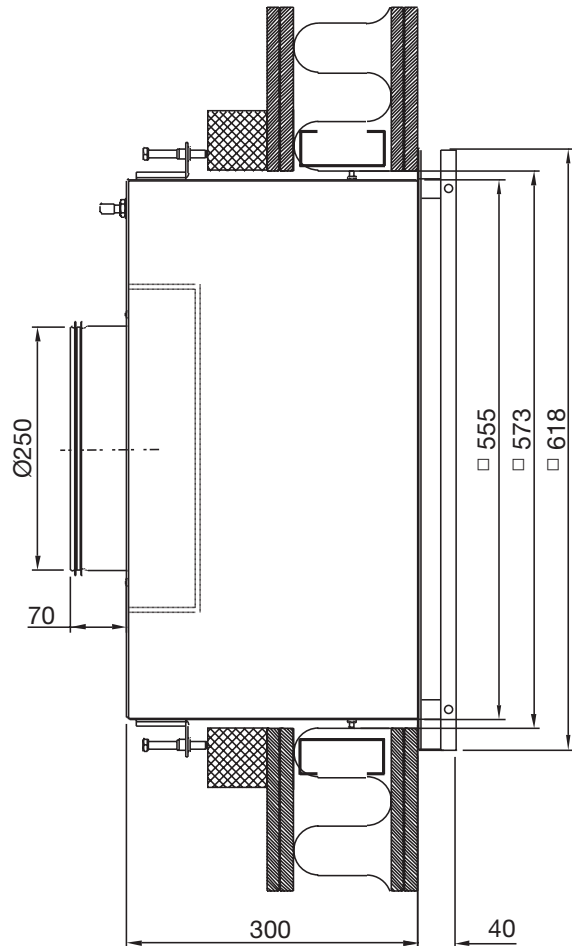
Description

LCR2 is a clean room diffuser that can be equipped with a HEPA filter, for installation in walls. It is typically used in premises where there are stringent requirements concerning the amount of particles and germs in the air. The diffuser can be used both to supply and exhaust air. It is supplied with a front-mounted, partially perforated and easy-to-detach front plate that ensures good air distribution and moderate flow rates throughout the premises. The diffuser excels when used with the very simple and easy filter installation function.

The pattern of airflow is illustrated on the following page. Filters are supplied by Camfil Farr with a PU seal.

- Airtight all-welded box in stainless steel
- Simple and easy filter installation
- Mounting brackets are supplied as accessories
- Hinged front plate on diffuser – easy to detach
- Low net weight
- The front plate can be supplied in stainless steel upon request.

Dimensions



- Weight 16.9 kg.

- The diffuser can also be supplied with circular or rectangular side connections. However, this requires an increased box depth.

Materials and finish

Box:

Material: Stainl steess I
 Standard finish: Powder-coated
 Standard colour: RAL 9010, gloss 30

Frontplate:

Material: Galvanised steel I
 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.

Ordering example

Product	LCR2
Type	

Perforated wall diffuser

LCR2

Technical data

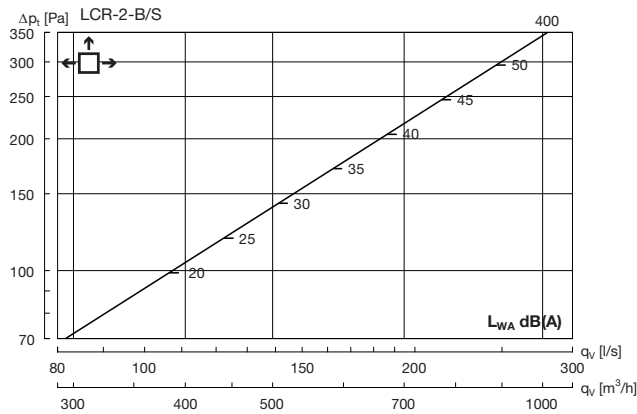
All measurements include the class H-14 filter manufactured by Camfil Farr.

Capacity

Volume flow q_v [l/s] and [m³/h], total pressure drop Δp_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.



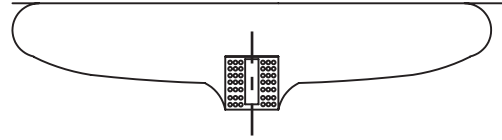
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	4	-3	-5	0	-5	-9	-23	-32

Sound attenuation

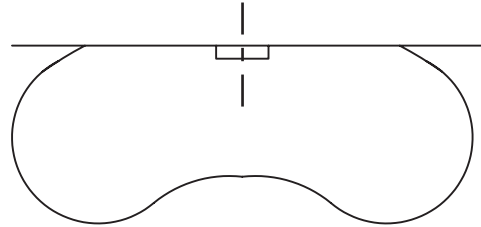
The diffuser's sound attenuation function from duct to room, including end reflection.

	Mean frequency Hz							
Hz	63	125	250	500	1K	2K	4K	8K
	17	11	3	5	5	4	5	13

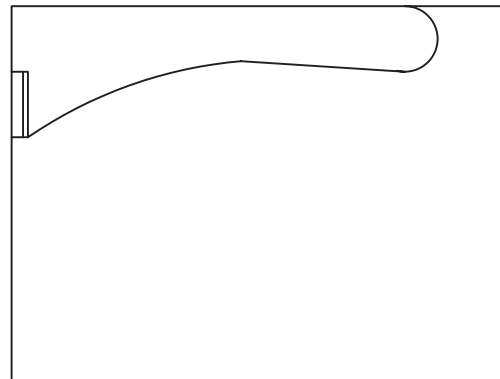
Dispersal diagram-viewed from the front



Dispersal diagram-viewed from above



Dispersal diagram-viewed from the side



Parts

Filter clip

