



Lindab DCS Nozzle Diffuser Instruction Manual

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Description

DCS is a circular diffuser with integrated box for visible installation. The diffuser is equipped with individually adjustable nozzles. The diffuser has an built-in damper and a measuring device for individual adjustment. DCS is equipped with a M8 threaded rod at the top for attaching the diffuser. The diffuser is suitable for the horizontal

supply of cooled air, where great flexibility in the dispersal pattern is required.

- Individually adjustable nozzles
- Supplied with integrated M8 rivet nut for suspension
- Detachable damper for cleaning of duct.

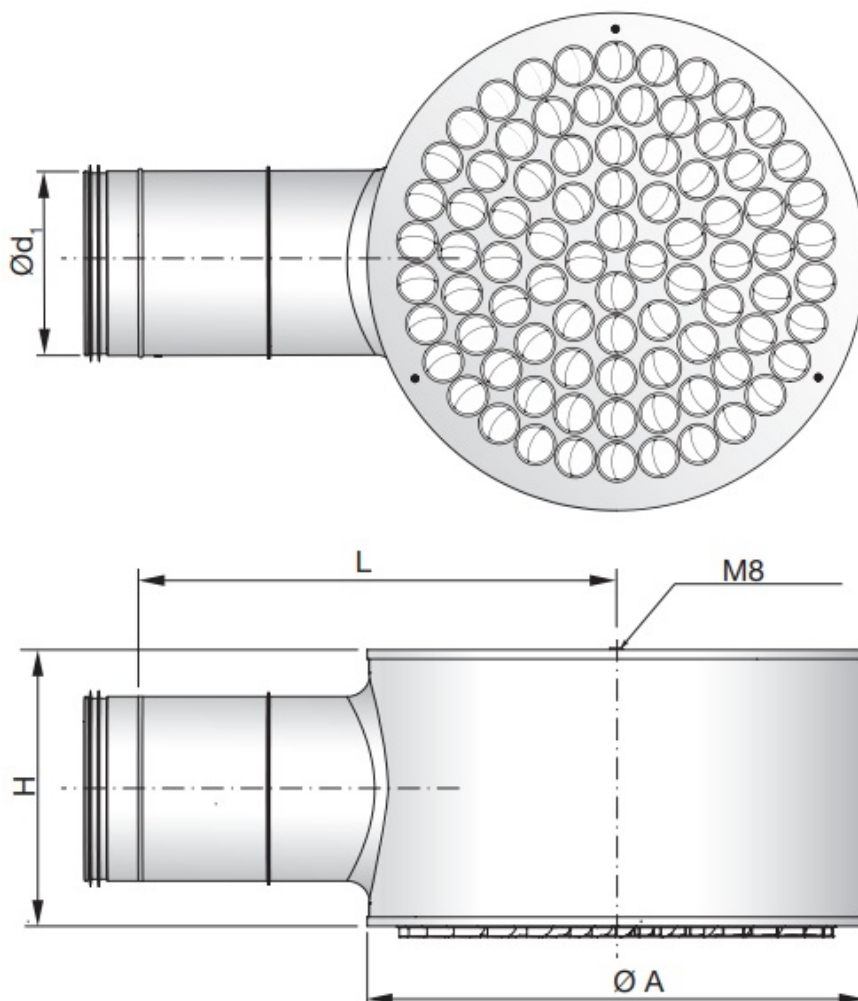
Maintenance

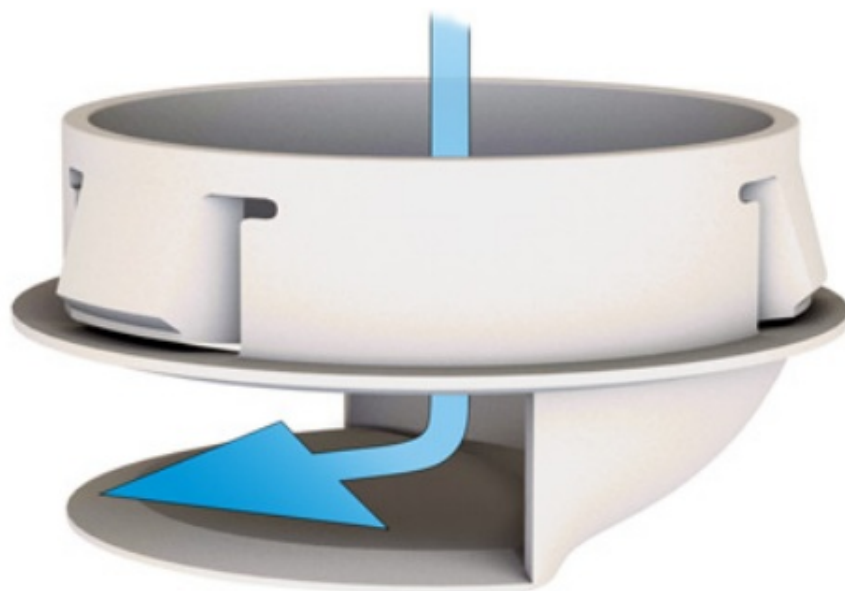
The face plate can be detached and the damper removed to enable cleaning of the internal parts or the duct. The visible parts of the diffuser can be wiped with a damp cloth.

Order code

Product	DCS	aaa	A
Type	DCS		
Duct connection Ød ₁			
Ø100-315			
Version			A

Dimensions





Ød ₁ Size [mm]	ØA [mm]	Ød ₁ [mm]	L [mm]	H [mm]	Weight [kg]
100	300	100	365	200	3.1
125	360	125	395	215	4.0
160	460	160	470	260	5.2
200	540	200	545	300	7.7
250	680	250	645	350	10.5
315	680	315	685	420	10.8

Materials and finish

Material: Galvanised steel

Nozzles: ABS Plastic, white

Standard finish: Powder-coated

Standard colour: White, RAL 9003 or 9010, gloss 30

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

Technical data

Capacity

Volume flow q_v [l/s] and [m³ /h], total pressure Δp_t [Pa], throw 0.2 [m] and sound power level LWA [dB(A)] can be seen in the diagrams.

Frequency-related sound effect level

The sound effect level in the frequency band is defined as LWA + Kok Kok values are given in charts beneath the diagrams on the following pages.

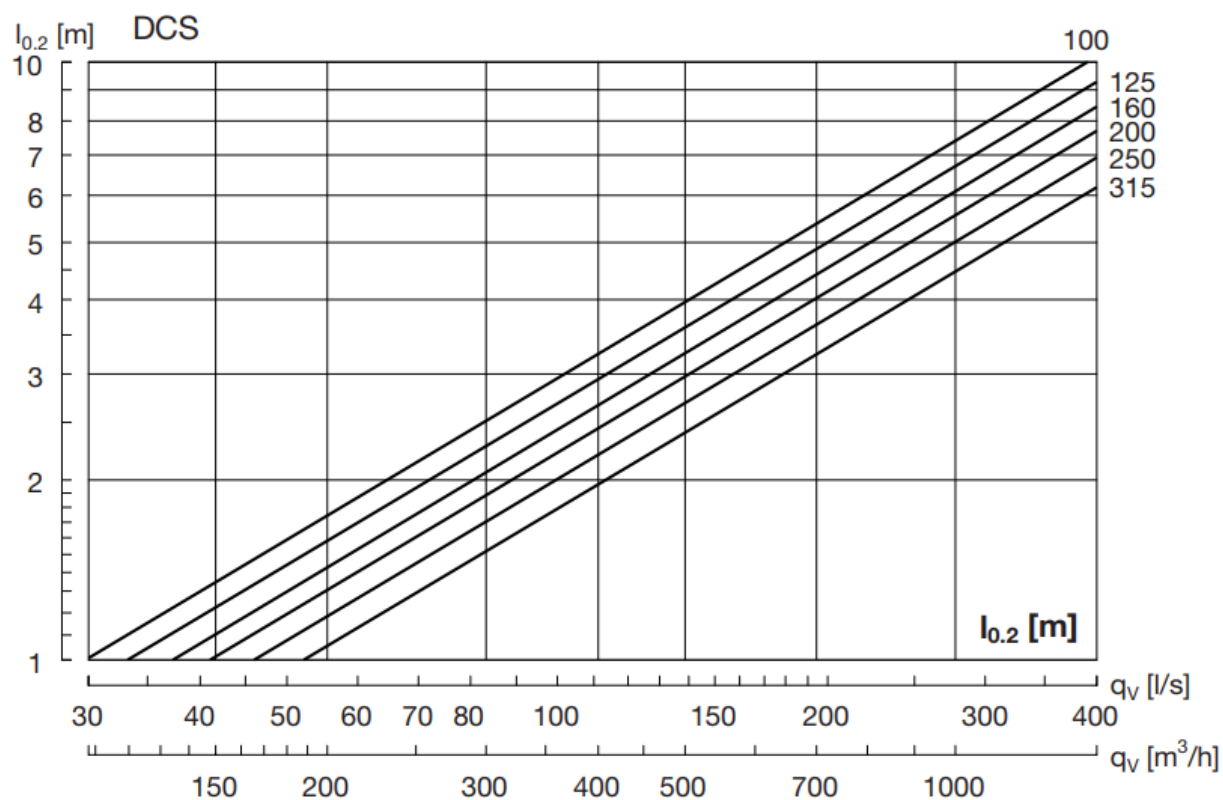
Quick selection

Supply air

DCS Ød1 [mm]	Minimum $P_i=5$ Pa l/s m ³ /h		pt = 50 Pa LWA=30 dB(A) l /s m ³ /h		pt = 50 Pa LWA=35 dB(A) l /s m ³ /h	
100	9	33	15	52	34	123
125	15	53	29	105	42	150
160	25	91	44	157	65	233
200	40	145	63	225	95	340
250	67	241	–	–	115	416
315	112	402	–	–	166	596

Throw l0.2

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



Sound attenuation

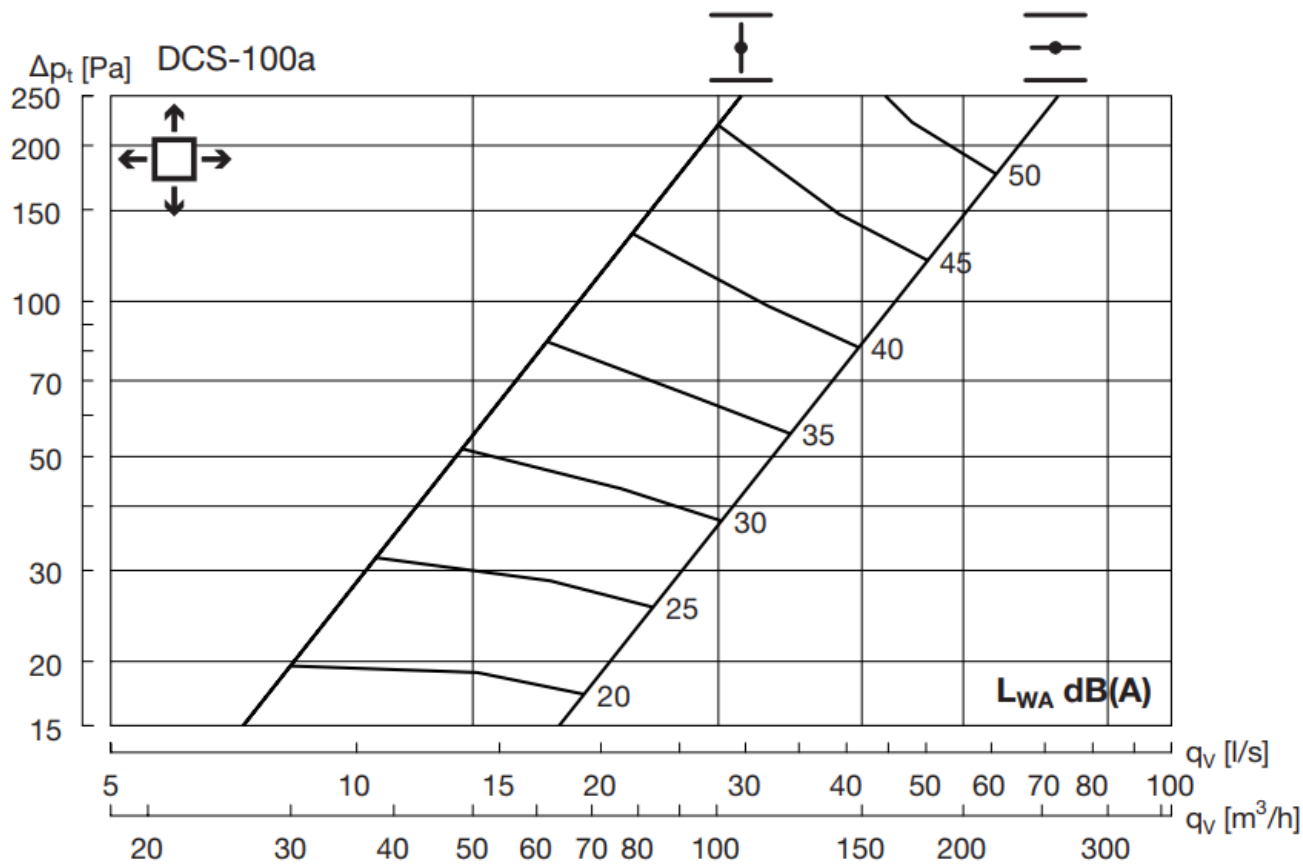
Sound attenuation of the diffusers ΔL from duct to room, including end reflection, see table below.

DCS Ød ₁ [mm]	Centre frequency Hz								
	63	125	250	500	1K	2K	4K	8K	
100		14	9	6	17	14	11	9	16
125		16	11	5	14	12	9	10	16
160		14	10	5	16	10	9	9	14
200		11	7	7	13	8	7	9	14
250		11	7	9	9	7	7	10	14
315		9	6	11	9	6	8	10	14

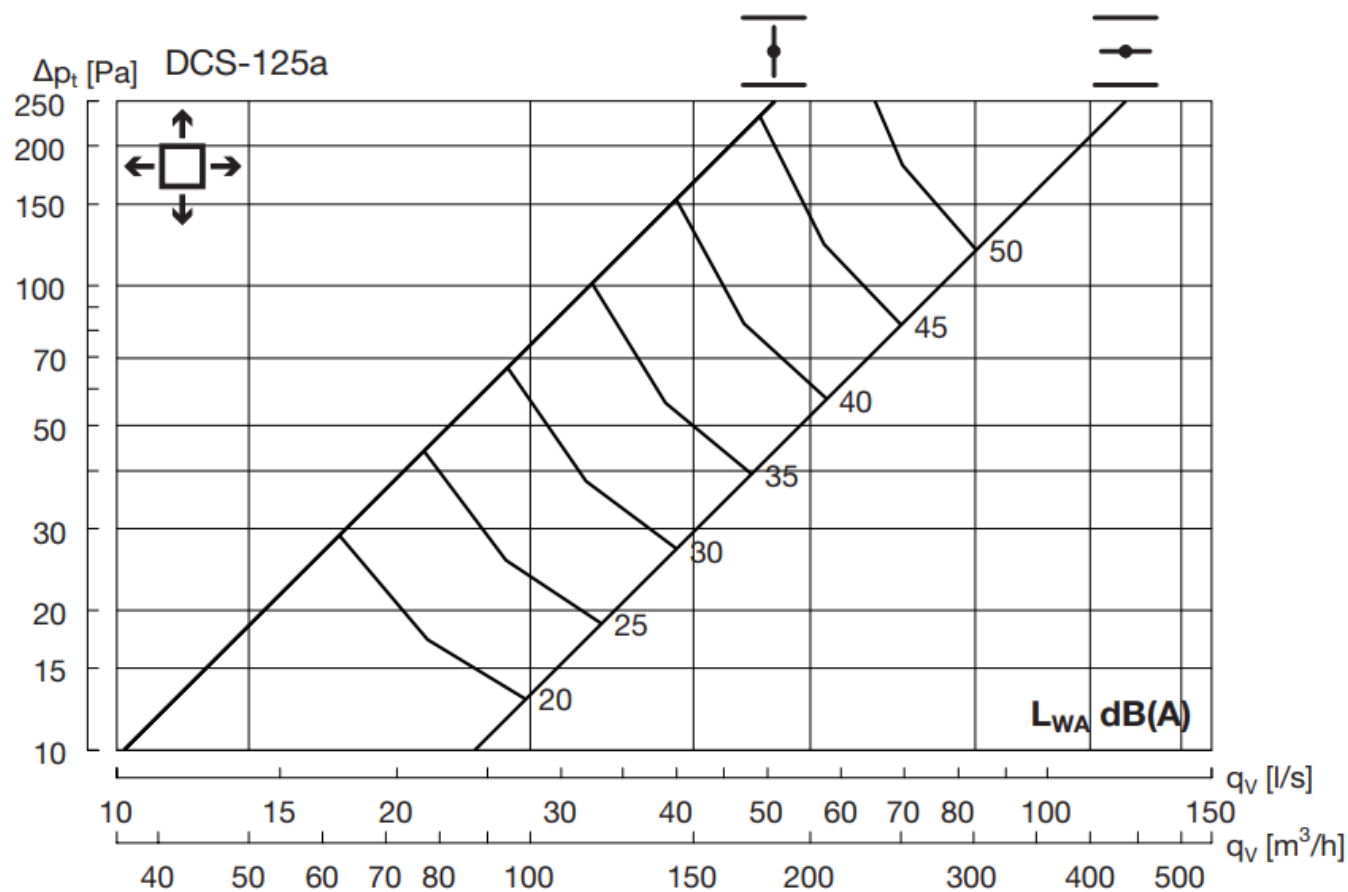
Balancing

Balancing data is contained in a separate brochure.

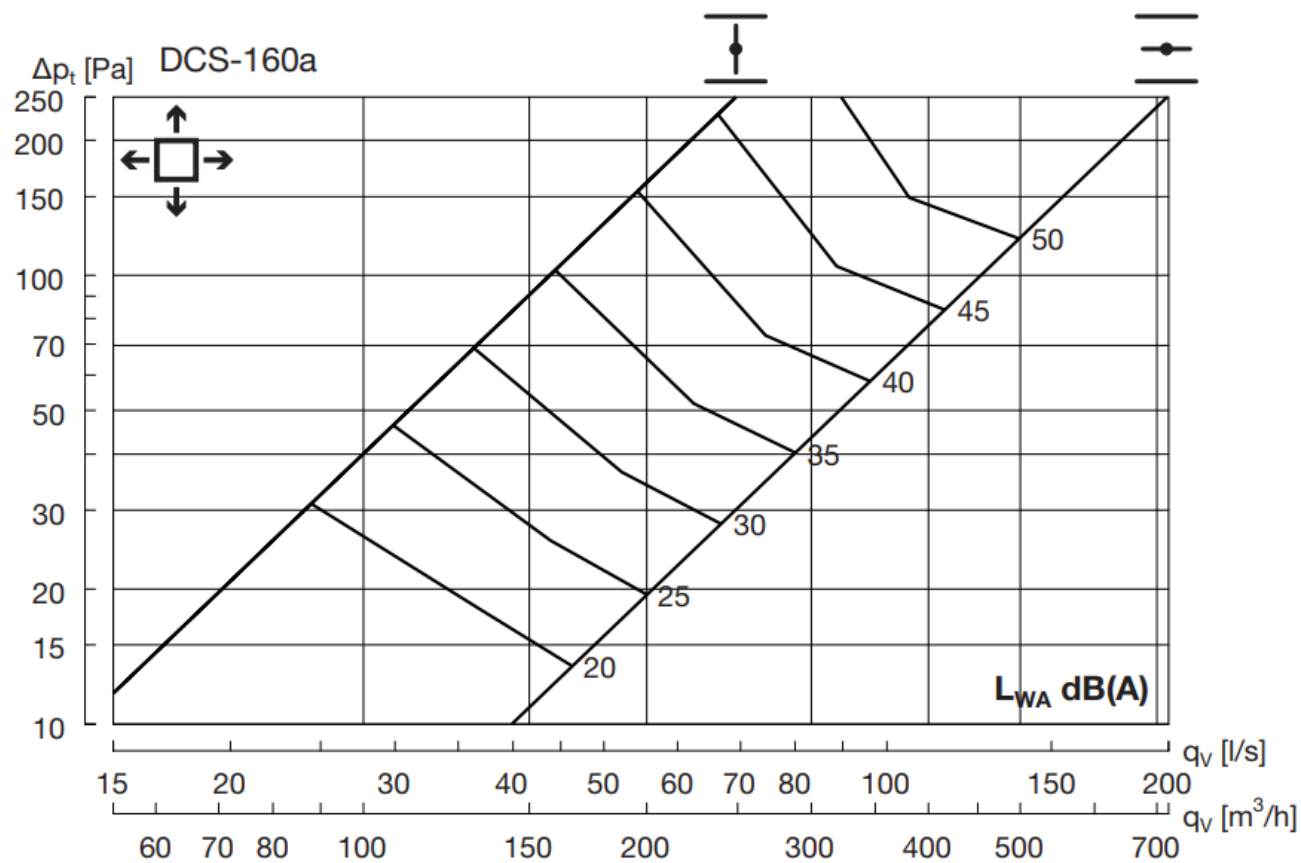
Technical data



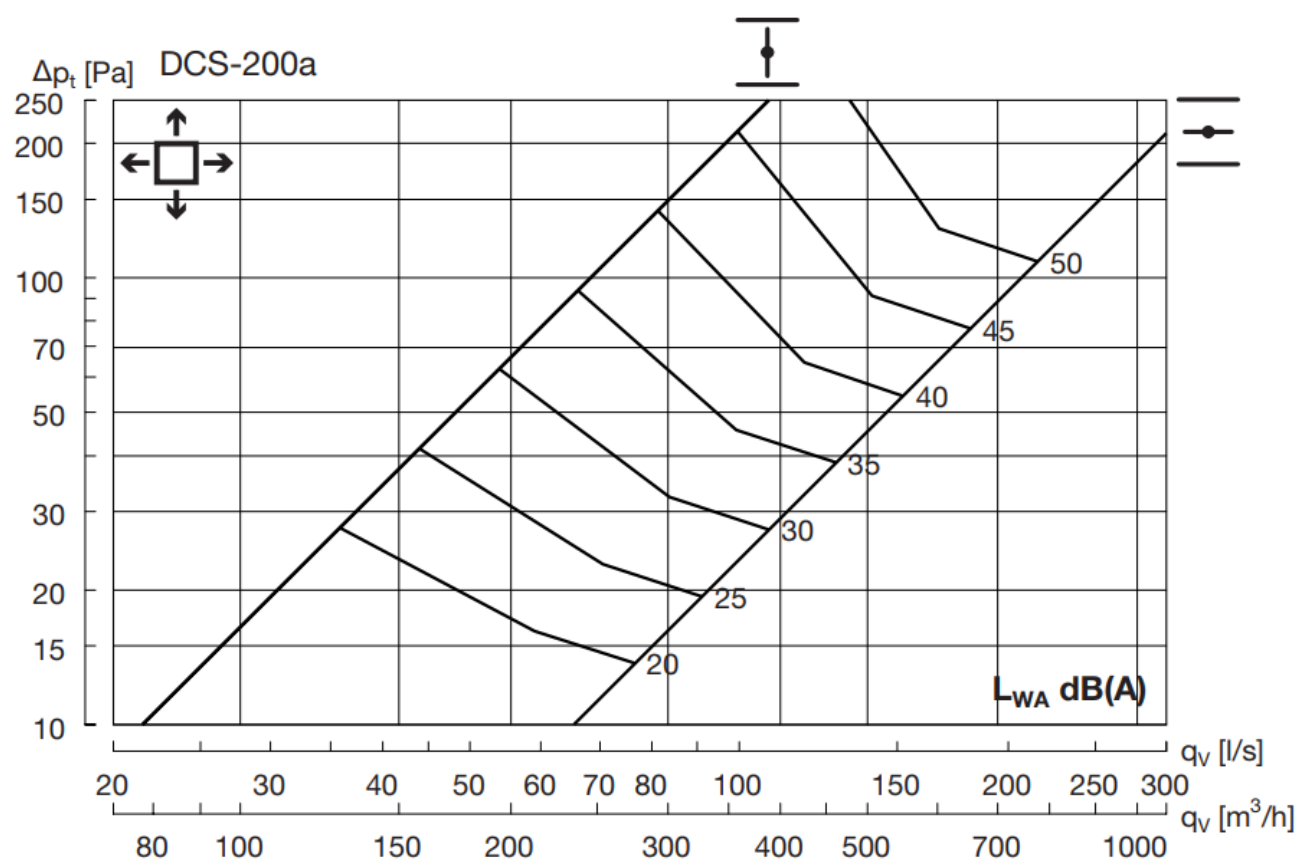
Hz	63	125	250	500	1K	2K	4K	8K
Kok	7	4	5	-5	-7	-10	-14	-18



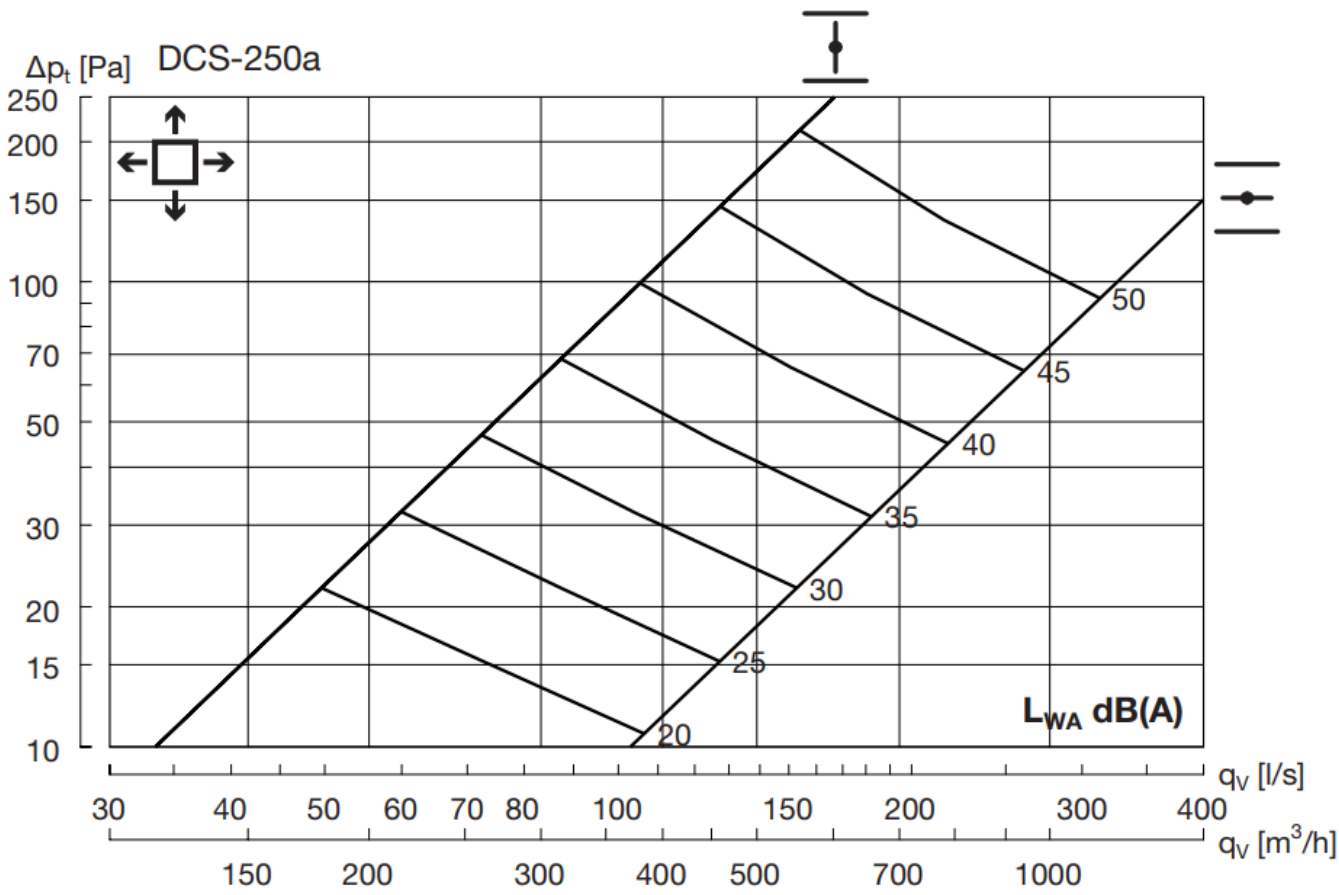
Hz	63	125	250	500	1K	2K	4K	8K
Kok	7	4	4	-4	-7	-9	-14	-20



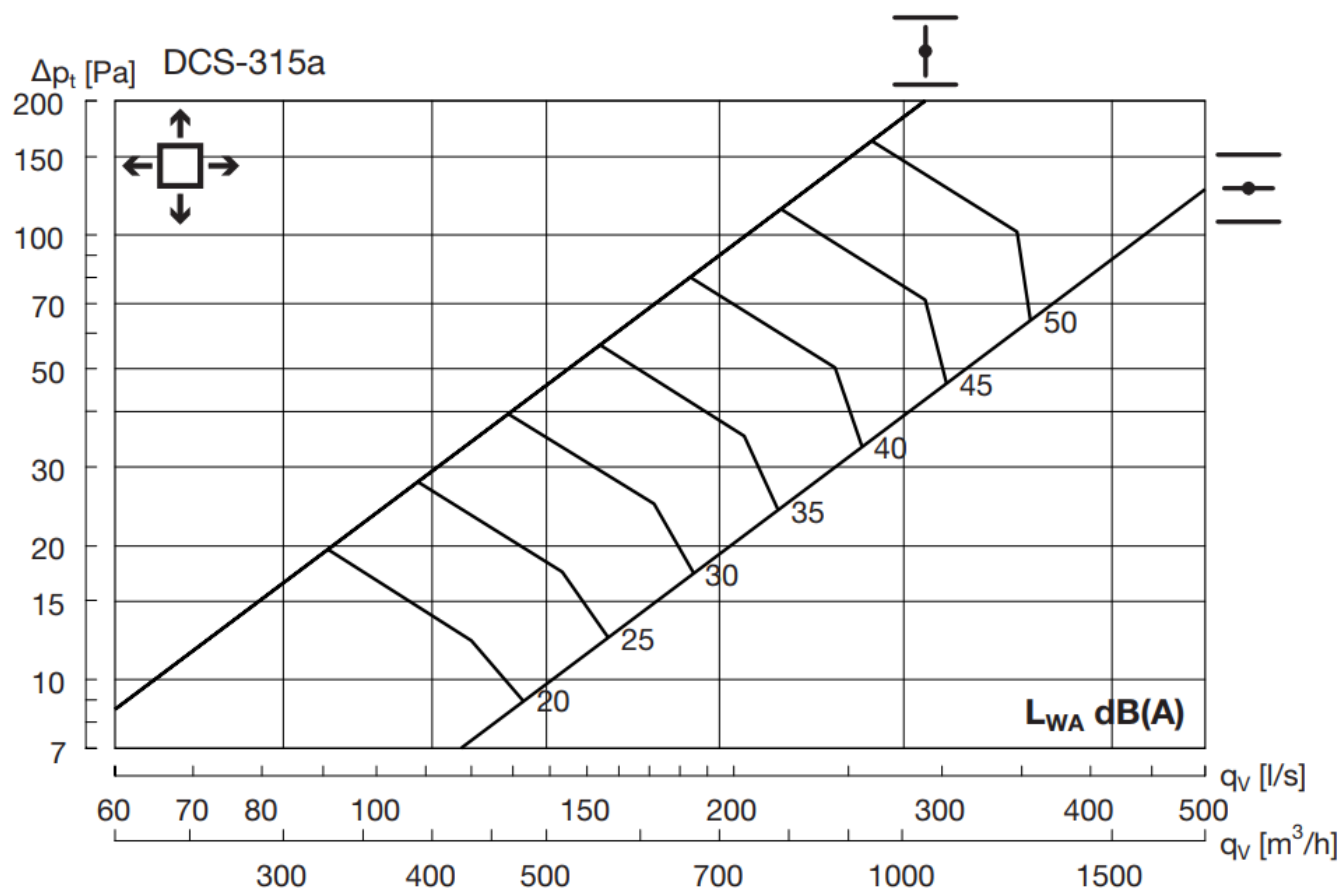
Hz	63	125	250	500	1K	2K	4K	8K
Kok	11	8	3	-5	-6	-10	-17	-19



Hz	63	125	250	500	1K	2K	4K	8K
Kok	11	8	1	-4	-6	-10	-15	-16



Hz	63	125	250	500	1K	2K	4K	8K
Kok	11	8	1	-5	-6	-10	-14	-16



Hz	63	125	250	500	1K	2K	4K	8K
Kok	9	6	1	-2	-6	-13	-16	-16

Lindab reserves the right to make changes without prior notice
2020-12-15

Documents / Resources

	Lindab DCS Nozzle Diffuser [pdf] Instruction Manual DCS, Nozzle Diffuser, DCS Nozzle Diffuser, Diffuser
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